

# PUBLIC HEALTH REPORTS

VOL. 39

JULY 11, 1924

No. 28

## EFFECT OF OIL POLLUTION OF COAST AND OTHER WATERS ON THE PUBLIC HEALTH.

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### GENERAL STATEMENT.

This paper is one of the appendices of a more comprehensive report<sup>5</sup> of an investigation made recently by the Bureau of Mines, in cooperation with the American Petroleum Institute and the American Steamship Owners' Association. The committee charged with the conduct of the investigation did not deem it to be among its duties to conduct scientific research on the effect of oil pollution of coast waters on the public health; it attempted merely to assemble and to summarize briefly such information as was available on the subject. The committee wishes to acknowledge the helpful cooperation of the Public Health Service in preparing the report on this branch of the work assigned to it.

The possible effects of oil pollution of the various waters on the public health can not be ignored. The committee communicated with many health officers in order to obtain their views and any information available on the subject. As the problem has become a serious one only within the last few years, very little work has been done, and many health officers reported that they had no special knowledge of the effects of oil pollution on the public health. Certain sanitary experts informed the committee that pollution from sewage is a more serious menace than pollution by oil.

In connection with the present discussion, Appendix E, "Oil Pollution at Bathing Beaches," and Appendix G, "Effect of Oil Pollution on Marine and Wild Life," should be consulted.<sup>6</sup> In

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<sup>5</sup> "Pollution by Oil of the Coast Waters of the United States." Certain parts of this complete report were published by the Bureau of Mines as a preliminary report in September, 1923.

<sup>6</sup> These appendices have not yet been published, but may be consulted at the offices of the Bureau of Mines, Interior Building, Washington, D. C.

Appendix G particular attention is called to certain extracts from a paper by Dr. T. C. Nelson.

#### EFFECT ON BATHING, BOATING, FISHING, AND HUNTING.

Possibly the most harmful results to the public health are brought about through the discouragement of bathing, boating, fishing, and hunting. The importance of this phase of the subject may be judged from the statement of one sanitary expert that at the height of the bathing season nearly 1,000,000 persons each day visit the beaches from New York City alone. It is probable that the beaches of other localities along the Atlantic and Gulf coasts play nearly an equally important rôle in the public life. The loss of the use of bathing beaches is not merely a loss to the proprietors of these recreation centers, but the deleterious effect on the health of the communities must be felt sooner or later. When deprived of the use of the beaches, people may resort to bathing in localities which are badly polluted by sewage. This point was emphasized by sanitary engineers in several localities visited by the committee.

The Massachusetts State Board of Health apparently has considerable power in controlling industries in the State, so far as they may affect the public health. In that State it is understood that the board of health may order a plant to close without the sanction of any court. The industry so affected must cease operating at once, but an appeal to the court for suspension or modification of the order may be made. Making use of these powers, the Massachusetts State Board of Health closed one oil refinery some time ago, pending the installation of certain devices for eliminating odors and oil pollution. In this particular case, the committee was informed, the wind and tide had carried the oil 3 or 4 miles from the point of pollution, leaving the shores with a black, tenacious deposit, and having a considerable effect not only upon the health of the rather thickly settled residential area in the vicinity, but upon yachting, boating, and bathing, which healthful sports are popular at that place. It is reported that finny and shell-fish are also considerably affected in this area.

#### EDIBILITY OF SEA FOOD.

The oily taste acquired by sea food in the presence of oil pollution has been frequently observed. It is stated that clams and other sea food not only fail to reach the proper maturity under such conditions, but apparently contain a perceptible amount of the contaminating material, even after the food has been cooked. It is understood that shellfish taken from Jamaica Bay, N. Y., are not permitted to be sold, because of the very badly polluted condition of the waters in this locality caused by sewage and oil.

## RETARDING OF OXIDATION OF SEWAGE.

The possible effect of thin films of oil in retarding the normal oxidation of sewage has been brought to the attention of the committee by several sanitary experts. There may be some question as to whether the amount of oil ordinarily present in coast waters is sufficient to prevent or hinder such oxidation. On the other hand, in certain tributaries which have been inspected by the committee, and which serve as the sewage drainage for particularly congested communities, it does not seem unreasonable to suppose that the very appreciable quantities of oil seen on the surface of the water may hinder the normal oxidation processes. This would seem to be particularly true of streams where the current is very sluggish, such as Gowanus Canal, Brooklyn; the Passaic River, Newark; and portions of the Schuylkill River, Philadelphia. Another aspect of this phase of the subject is discussed in Appendix G in certain extracts from a paper by Dr. T. C. Nelson.

## IRRITATION OF THE SKIN.

It is believed that certain skin irritations which have been observed in various localities may result from contact with oily material while the persons are in bathing. One expert reported that oil in bathing beach waters has a marked irritating effect on the skin as well as on the eyes, nose, ears, and throat. It is understood that at certain times when oil deposits have been most noticeable on the beaches, specialists in skin diseases have reported a rather large number of such cases.

The committee is informed that some years ago there was an epidemic of skin diseases in Narragansett Bay and Long Island Sound. This may have been due to oil, but there appears to be no proof of this fact. Many specialists in skin diseases were consulted at the time of the epidemic, but the results of these efforts apparently were not very definite.

## ODORS FROM OIL AND OILY DEPOSITS.

The nuisance brought about by odors from certain oily deposits has been brought to the attention of the committee in a few cases, but this does not appear to be very serious. Indirectly, by retarding the normal oxidation of sewage, oil pollution may result in obnoxious odors from the accumulation of putrid fecal matter.

## OPINIONS EXPRESSED BY VARIOUS AUTHORITIES.

The committee interviewed a number of persons with regard to the effect of oil pollution on the public health. Many letters were

also written to State and city boards of health, but the response to these inquiries was, in general, disappointing. In many cases no replies were received.

A letter from the Bureau of the Public Health Service, Treasury Department, Washington, D. C., contains the following paragraph:

"It would appear at first sight that oil pollution is of major significance on account of economic considerations, such as the diminution of fish life and the offering of exceptional fire risk. There must, however, be a connection between the presence of oil and the processes of natural purification of water."

The health commissioner of the city of Boston wrote in part as follows:

"This department has made no intensive study of the subject. \* \* \*"

"The investigator also visited places where lobster meat was being canned, and found that the lobster cans containing the live lobsters were completely covered with this oil inside and out. This condition was also noted at other lobster establishments along the water front of the city proper."

The director of the bureau of engineering, Department of Health, State of Connecticut, wrote in part:

"The former Industrial Wastes Commission, copies of whose reports have been sent you, made special studies of the pollution of inland waters by the wastes from the manufacture of brass and copper, iron and steel, paper, silk, wool scouring, dyeing, and from the distillation of wood alcohol. From none of the streams investigated was the water used for drinking purposes, and bathing in them was practiced only to a limited extent. Our studies, therefore, were more of the effect of the pollution on public comfort and welfare than public health. Our investigation showed the danger to public health to be much greater from the discharge of domestic wastes than industrial."

The Department of Health of the State of New York has investigated the subject of oil pollution in New York Bay and Jamaica Bay and their tributaries. Apparently no studies were made by this department regarding the effect of oil pollution on the public health, nor do any conclusions appear to have been drawn on this question.

The following is taken from a letter from the commissioner of health of the city of Baltimore:

"\* \* \* This department has not taken up this matter from the sanitary aspect. \* \* \* You will see that we have no information from the public health standpoint, but we are interested in this matter, and if you have any program in which we could cooperate to the end of securing some data along this line I should be only too glad to do what I could."



The director of public welfare, Norfolk, Va., stated in reference to pollution by oil:

" \* \* \* How much danger this has actually done in creating sickness, I am not able to say. \* \* \*"

The following is contained in a letter received from the health officer, Newport, News, Va.:

"In reply to your letter of November 14, beg to advise that oil in lower James River and Hampton Roads is at times very objectionable to bathers. Otherwise I have not noticed that it is in any way detrimental to public health."

The following is taken from a letter from the district health officer, State Board of Health, Pensacola, Fla.:

"I presume that the city authorities have no information along the line desired, and I have to admit that I can not give you first-hand information regarding the effect on public health of oil pollution of navigable coast waters."

The county health officer, Mobile, Ala., wrote in part:

"Relative to the pollution of navigable waters by oil, I have no information that such so-called pollution of coast waters has any deleterious effect upon the public health."

A sanitary expert called the committee's attention to the enormous number of persons who use the bathing beaches each day in the vicinity of New York. He pointed out that a loss of the use of such recreation centers as a result of oil pollution must eventually have a very important effect upon the public health. In his opinion the oil met with at beaches has a very definite irritating effect on the skin, eyes, nose, ears, and throat. He regards pollution by sewage as very serious; and in many places such pollution may be as bad as or worse than pollution from oil. It is understood that several industrial plants along Kill Van Kull burn residual sludge under such conditions that injurious sulphur oxide gases are given off. This authority pointed out that saponified oils are now used for mosquito extermination and can not be considered as pollution.

A representative of the New York Chamber of Commerce, an engineer, informed the committee that no special study of oil pollution had been made by that organization. This engineer has been interested in harbor pollution for about 15 years, and was chairman of a committee appointed by the Metropolitan Sewage Commission of New York to investigate harbor conditions, and to set up a standard of sanitary cleanliness for the harbor. Reports of this work were published in 1910, 1912, 1914, at which period there was not the same oil pollution problem to deal with as we now have. This authority, however, does not consider oil pollution as great a menace to the public health as pollution by sewage, and suggested that it might be possible to eliminate much of the present trouble from oil by some changes in ship construction. He believes it possible that a film of oil may reduce appreciably the capacity of water to assimilate sewage.

An engineer of the Massachusetts State Department of Health called attention to the wide powers possessed by that department in dealing with industries in the State. He indicated that in a general way the menace of oil thrown into the waters from refineries consists in its effect in rendering clams and similar sea food unfit to eat, in the odor which is given off from oil deposits, and in the probable prevention of the normal oxidation of sewage.

The State commissioner of health of a large New England State informed the committee that he was aware of numerous complaints regarding pollution by oil, but none of these had been brought to him personally. He has had no experience with cases of skin infection said to be due to oil.

In the opinion of a sanitary engineer of the Board of Purification of Waters, Providence, R. I., the health menace of oil lies in the fact that it renders marine food unfit to eat, injures the beaches, and discourages fishing, boating, and hunting. He referred to an epidemic of skin diseases in Narragansett Bay and Long Island Sound about 1919, but indicated that a connection between this epidemic and pollution by oil could not be established.

#### SUMMARY.

For present purposes the health menace of petroleum oil from various sources that reaches the coast and other waters may be classified as follows:

1. The discouragement of healthful recreation, such as bathing, boating, hunting, fishing.
2. Its effect in rendering clams, oysters, and other sea food unfit to eat on account of the oil actually absorbed by this food.
3. The unsightly appearance which may result from the presence of oily refuse in any locality, and the accompanying tendency to lower the hygienic standards of the community.
4. The possible prevention or retardation of the normal oxidation of sewage.
5. Skin diseases or irritations which may be the result of contact with oil and oily residues.
6. The odors which may be given off directly by oil and oily matter when deposited on the shores and banks of streams and the obnoxious odors from accumulated fecal matter resulting from retarded oxidation of sewage.

Owing to the lack of more definite information, it appears impracticable to state the degree to which these factors are at present affecting the public health; but it seems certain that over a long period of time the effect must be appreciable. Before definite conclusions can be drawn, however, much work must be done along the lines indicated in the topics just summarized.

# LETHARGIC ENCEPHALITIS IN GREAT BRITAIN.

The following figures showing the occurrence of lethargic encephalitis in England and Wales during 1922, 1923, and the first part of 1924, by quarters, and up to May 17, 1924, were recently given out by the Minister of Health in answer to a parliamentary inquiry:<sup>1</sup>

	Quarter. <sup>1</sup>									
	1922.				1923.				1924.	
	1st.	2d.	3d.	4th.	1st.	2d.	3d.	4th.	1st.	7 weeks ended May 17.
Cases.....	140	132	89	93	448	279	144	154	753	1,715
Deaths.....	95	96	82	66	188	167	90	86	229	-----

<sup>1</sup> Some of the periods vary a day or two from exact quarters, but are represented here as quarterly periods for comparative purposes.

<sup>2</sup> Uncorrected figures.

<sup>3</sup> Approximate.

The notifications in England and Wales during the 52 weeks ended June 2, 1923, were 868, whereas during the 50 weeks ended May 17, 1924, they numbered 2,829.

In view of the increased prevalence of lethargic encephalitis during the past two or three months, the ministry of health has revised and reissued a memorandum dealing with the disease, which was prepared three years ago, incorporating in it late statistical records and recently gained knowledge concerning the symptoms and types of the disease. The memorandum has been circulated to the medical officers of health.

The chief medical officer of the ministry of health, Sir George Newman, calls special attention to the fact that this memorandum contains a fuller reference to the mental sequellae of lethargic encephalitis than did the former memorandum. He states: "The recognition of this aspect of the disease is important to school medical officers and others engaged in medical work among children and young persons." He also calls attention to the value of local inquiry in the detection of mild, abortive, or unrecognized cases, and to the securing of information regarding contacts and other facts bearing on the epidemiology of encephalitis. The memorandum suggests the following line of action:

"(a) Full determination of the associated conditions and any fact which may throw light on the epidemiology of the disease.

"(b) Search for mild and abortive cases.

"(c) Aiding in any practicable pathological investigation and in obtaining material for the purpose.

<sup>1</sup> The Medical Officer, June 14, 1924.

"(d) Aiding in securing the treatment of the case in hospital or otherwise.

"(e) Enjoining the precautions required in the case of a disease apparently capable of transmission from person to person, especially through mild or abortive cases capable of carrying infection; and

"(f) 'Following up' and recording the after-history of patients; in particular, as to any mental after-effects which may be observed. In this connection inquiry should also be made into the previous history of children who begin to exhibit changes in behavior or unusual accentuation of undesirable qualities; these symptoms not infrequently point to an overlooked attack of epidemic encephalitis at an earlier date."

Medical officers are privileged to send to the ministry for examination specimens of cerebrospinal fluid from patients having or suspected of having lethargic encephalitis; and it is suggested that they take any useful and practicable action to secure post-mortem and pathological examinations by skilled workers who are investigating the disease.

It is advised that, in view of the severity of the disease and the importance of good nursing, hospital treatment should be secured if possible. It is urged that local isolation hospitals should be made available; and that where public nursing arrangements are provided, this service should be made available for patients treated at home.

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### CURRENT COURT DECISIONS PERTAINING TO PUBLIC HEALTH.

*Title of venereal disease law held to comply with constitutional requirement.*—The title of Act No. 272, Michigan Public Acts of 1919, reading "An act to protect the public health; to prevent the spreading of venereal diseases, to prescribe the duties and powers of the State department of health and of local health officers and health boards with reference thereto, and to make an appropriation to carry out the provisions hereof," has been held by the Supreme Court of Michigan to comply with the constitutional provision that "No law shall embrace more than one object, which shall be expressed in its title." Section 2 of the act requires physicians to report cases of venereal diseases to the State department of health and it was this section that the defendant was convicted of violating. (*People v. Wohlford*, 197 N. W. 558.)

*Local board of health can not change city ordinance.*—The Supreme Judicial Court of Massachusetts has decided that the vote of a local board of health, authorizing the use of a tile drain connecting with a sewer, is void where a city ordinance requires drains to be of iron. (*Kelly et al. v. Board of Health of Peabody et al.*, 143 N. E. 39.)

*Bread manufacturer held liable to injured consumer.*—The plaintiff bought from a neighboring grocer a loaf of bread manufactured by the defendants and while eating the bread was injured by a piece of iron contained therein. In an action for negligence the judgment of the lower court in favor of the plaintiff was affirmed by the Supreme Judicial Court of Massachusetts. (*Tonsman v. Greenglass et al.*, 142 N. E. 756.)

*City sanitary cart driver held within compensation act.*—The driver of a sanitary cart operated by the public health department of a city has been held by the Court of Appeals of Georgia, Division No. 2, to be an "employee" of the city and entitled to compensation under the workmen's compensation act. (*City of Atlanta v. Hatcher*, 121 S. E. 864.)

*Contraction of typhoid fever held not compensable under workmen's compensation act.*—The Supreme Court of Michigan has decided that in the instant case the contraction of typhoid fever by the plaintiff, an employee of an independent contractor, was not an industrial accident caused by exposure to some special hazard incidental to or arising out of his employment. The defendant, the owner of the premises where the work was being performed, did not furnish the plaintiff with the water alleged to be the cause of the infection for the purposes of or in connection with his work and did not know in fact that the plaintiff was drinking it. The water was not at or in view of the place of plaintiff's employment but was in a barn some distance from there and in a condition indicating it was put there to water animals. (*Ames v. Lake Independence Lumber Co.*, 197 N. W. 499; *Wiltfong v. Lake Independence Lumber Co.*, 197 N. W. 502.)

*Garbage disposal ordinance upheld.*—A city ordinance defining garbage and prohibiting the hauling of same by anyone but a licensed garbage officer of the city or his assistants has been held by the Court of Civil Appeals of Texas to be within the police power of the city and valid and not to create a monopoly. (*City of Breckenridge v. McMullen*, 258 S. W. 1099.)

*Milk ordinance void because in conflict with State law and regulations.*—In prosecutions for operating dairies without permits, in violation of a city ordinance, the Supreme Court of Louisiana has decided that the said ordinance is null and void, because in conflict with a State law and the State sanitary code, at least in so far as the ordinance authorized the city board of health to refuse permits to operate dairies unless the owners thereof had their cows tuberculin tested in the manner and by the veterinarians designated by the city board of health rather than in the manner required by the State board of health. (*City of New Orleans v. Ernst*, 99 So. 391; *City of New Orleans v. Poulet*, *City of New Orleans v. Souquet*, *City of New Orleans v. Daret*, *City of New Orleans v. Glaudi*, 99 So. 394.)



## THE NOTIFIABLE DISEASES.

### PREVALENCE DURING 1923 IN CITIES OF OVER 100,000.

The following tables were compiled from data furnished by the health officers of the cities. They include all cities of 100,000 population or over in the United States.

The following is a list of the diseases included:

Anthrax.	Pneumonia (all forms).
Cerebrospinal meningitis.	Poliomyelitis.
Chicken pox.	Rabies in animals.
Dengue.	Rabies in man.
Diphtheria.	Scarlet fever.
Influenza.	Septic sore throat.
Lethargic encephalitis.	Smallpox.
Malaria.	Tuberculosis (all forms and pulmonary).
Measles.	Typhoid fever.
Mumps.	Typhus fever.
Pellagra.	Whooping cough.

The populations given, and which were used in computing the rates, were estimated as of July 1, 1923, except where otherwise stated.

The estimated expectancy, given in the tables for some of the diseases, is, the result of an attempt to ascertain from the experience of recent years how many cases of the disease under consideration might be expected in 1923. In most instances the estimated expectancy is the median number of cases reported by the city for the years 1916 to 1922, inclusive. When several epidemics have occurred during these years, or when for other reasons the median is not satisfactory, epidemic years are excluded, and the estimated expectancy is the mean of the number of cases reported for the non-epidemic years. The aim has been to ascertain how many cases of each disease may reasonably be expected in the absence of epidemics.

The column headed "Number of years" shows the number of years for which data were available for each city.

In comparing the figures for 1923 with the estimated expectancy or with reports for preceding years, it should be borne in mind that for several years there has been a gradual improvement in the reporting of communicable diseases. An increase in the number of cases reported may be due to better reporting rather than to an increase in the number of cases occurring.

In studying these tables it should be kept in mind that a relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department of that city is active

and that the cases of the disease are being well reported by the practicing physicians. It does not usually mean that the disease is more prevalent in that city than in other cities. A high fatality rate may mean that the disease was unusually virulent in a city; that the physicians did not treat the disease in that city with the success usual elsewhere; or that the practicing physicians did not report all of their cases to the health department. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the city was unusually mild; that the physicians treated it with unusual success; that the practicing physicians reported their cases satisfactorily; or that the registration of deaths was incomplete or the assignment of the causes of death inaccurate.

Cities which did not report either cases or deaths of a certain disease in 1923 are not included in the table for that disease.

*Chicken pox.*—The case rate for chicken pox was 2.02 per thousand population in 77 cities in 1923. In 1922 it was 1.69 in 68 of these cities.

*Diphtheria.*—The tables indicate that diphtheria was less prevalent during 1923 than during the last few years. Fifty-nine thousand cases were reported by 77 cities, while the estimated expectancy, which is lower than the average number of cases, was more than 63,000 cases. For 1923 the cities reported 1.97 cases per thousand population, while in 1922, 2.25 cases per thousand were reported for 73 cities.

*Influenza.*—The death rate from influenza in 1923 in 77 cities was 21 per hundred thousand population. In 1922 data were available for 70 cities, and the death rate was 16 per hundred thousand.

*Measles.*—In 1923, 211,372 cases of measles were reported by 77 cities. The estimated expectancy was 112,542 cases. The measles case rate in 1923 was 7.11 per thousand population. In 1922 it was 5.26 per thousand. Seventy-two cities were included in the figures for 1922.

*Pneumonia.*—The death rate from pneumonia for 75 cities in 1923 was 1.51 per thousand population. In 1922 the death rate from this disease in 74 cities was 1.36 per thousand.

*Scarlet fever.*—Seventy-seven cities reported 62,308 cases of scarlet fever for the year 1923. The estimated expectancy was 41,471 cases. The case rate in 1923 was 2.07 per thousand. In 1922, 73 cities had an aggregate case rate of 1.80 per thousand.

*Smallpox.*—Eighteen large cities, which did not report any cases of smallpox are omitted from the table. Including these cities, the totals for smallpox for the year 1923 were: Cases, 5,429; deaths, 42; aggregate population, 30,144,759. These figures give a case rate of 0.18 per thousand population, and a death rate of less than 0.0014 per thousand.

For 1922, 75 cities, having an aggregate estimated population of 29,315,201, reported 5,056 cases of smallpox and 350 deaths, giving a case rate of 0.17 per thousand population and a death rate of 0.012 per thousand.

The difference in the fatality rates of the two years is striking—0.77 deaths per 100 cases in 1923 and 6.92 deaths per 100 cases in 1922. Of the deaths in 1922, 248 occurred in the city of Denver, Colo., 63 in Kansas City, Mo., and 15 in Chicago, Ill.

*Tuberculosis.*—The death rate from tuberculosis (all forms), according to reports from 77 cities, was 0.98 per thousand population. For 1922 the reports from 72 cities gave a death rate of 1.01 per thousand.

*Typhoid fever.*—Seventy-seven cities reported 5,734 cases of typhoid fever for 1923, which is 19 per cent less than the estimated expectancy. The case rate (0.19 per thousand) and the death rate (0.03 per thousand) were the same as for 73 cities in 1922.

*Whooping cough.*—Seventy-six cities reported 49,698 cases of whooping cough, with 1,899 deaths, for 1923, giving a case rate of 1.67 per thousand population and a death rate of 0.06 per thousand.

#### Reported Prevalence for the Year 1923.

##### ANTHRAX.

City.	Cases reported, 1923.	Deaths registered, 1923.	City.	Cases reported, 1923.	Deaths registered, 1923.
California:			New Jersey:		
Los Angeles.....	1	0	Camden.....	5	1
Oakland.....		1	New York:		
San Francisco.....	6	0	New York.....	6	1
Delaware:			Ohio:		
Wilmington.....	3	0	Dayton.....		1
Illinois:			Pennsylvania:		
Chicago.....		1	Philadelphia.....	22	1
Louisiana:			Rhode Island:		
New Orleans.....	2	0	Providence.....	2	0
Maryland:			Texas:		
Baltimore.....	2	0	Houston.....	2	0
Massachusetts:			Virginia:		
Boston.....	2	0	Richmond.....	1	0
Lynn.....	1	1	Wisconsin:		
Springfield.....	1	0	Milwaukee.....	1	1

## Reported Prevalence for the Year 1923—Continued.

## CEREBROSPINAL MENINGITIS, EPIDEMIC.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	195,901	7	11	6	0.03	0		
California:								
Los Angeles.....	666,853	7	17	22	.03	8	0.01	36.4
San Francisco.....	539,038	7	31	24	.04	15	.03	62.5
Colorado:								
Denver.....	272,031	6	1			1	.00	
Connecticut:								
Bridgeport.....	143,555	7	18			8	.06	
Hartford.....	138,036	6	6	2	.01			
New Haven.....	172,967	7	13	11	.06			
Delaware:								
Wilmington.....	117,728	5	2	3	.03	1	.01	33.3
District of Columbia:								
Washington.....	143,571	6	8	8	.02	6	.01	75.0
Georgia:								
Atlanta.....	222,963	4	8			11	.05	
Illinois:								
Chicago.....	2,886,121	5	87	55	.02	32	.01	58.2
Indiana:								
Indianapolis.....	342,718	7	6	4	.01	2	.01	50.0
Iowa:								
Des Moines.....	140,923	5	4			11	.10	
Kansas:								
Kansas City.....	115,781	5	13	3	.03	2	.02	66.7
Kentucky:								
Louisville.....	257,671	5	7			1	.00	
Louisiana:								
New Orleans.....	404,575	6	11	14	.03	11	.03	78.6
Maryland:								
Baltimore.....	773,580	5	34	15	.02	7	.01	46.7
Massachusetts:								
Boston.....	770,400	6	54	35	.05	22	.03	62.9
Cambridge.....	111,444	6	5	1	.01	0		
Fall River.....	120,912	7	9	9	.07	4	.03	44.4
Lowell.....	115,089	7	9	5	.04	2	.02	40.0
Lynn.....	102,683	6	5			9	.09	
New Bedford.....	130,072	5	3	4	.03	3	.02	75.0
Springfield.....	144,227	5	5	3	.02	0		
Worcester.....	191,927	7	6	6	.03	0		
Michigan:								
Detroit.....	995,668	5	53	37	.04	26	.03	70.3
Flint.....	117,968	2	2	3	.03	1	.01	33.3
Minnesota:								
Duluth.....	106,289	5	5			4	.04	
Minneapolis.....	409,125	4	9	5	.01	4	.01	80.0
St. Paul.....	241,891	5	6	4	.02	0		
Missouri:								
Kansas City.....	351,819	5	11	6	.02	3	.01	50.0
St. Louis.....	803,853	7	37	33	.04	15	.02	45.5
Nebraska:								
Omaha.....	204,382	3	5	1	.00	0		
New Jersey:								
Camden.....	124,157	6	2			1	.01	
Elizabeth.....	103,947	6	6			1	.01	
Jersey City.....	309,034	7	13	12	.04	8	.03	66.7
Newark.....	438,699	5	32	20	.05	15	.03	75.0
Paterson.....	139,579	7	8	4	.03			
Trenton.....	127,390	7	4	1	.01	0		
New York:								
Albany.....	117,375	4	2	2	.02	1	.01	50.0
Buffalo.....	536,718	7	18	8	.01	5	.01	62.5
New York.....	5,927,625	7	279	133	.02	77	.01	57.9
Utica.....	103,457	7	2	1	.01	0		
Yonkers.....	107,520	7	3			3	.03	
Ohio:								
Akron.....	1208,435	4	10			3	.01	
Cincinnati.....	406,312	6	11	9	.02	8	.02	88.9
Cleveland.....	888,519	4	27	18	.02	12	.01	66.7
Columbus.....	261,082	7	3			3	.01	
Toledo.....	268,338	5	4			2	.01	
Youngstown.....	132,358	5	4			2	.02	

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## CEREBROSPINAL MENINGITIS, EPIDEMIC—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Oklahoma:								
Tulsa.....	102,018	3	4			2	0.02	-----
Oregon:								
Portland.....	273,621	5	4			3	.01	-----
Pennsylvania:								
Philadelphia.....	1,922,788	5	51	31	.02	23	.01	74.2
Pittsburgh.....	613,442	6	15	12	.02	8	.01	66.7
Reading.....	110,917	6	3			1	.01	-----
Scranton.....	140,636	5	2			4	.03	-----
Rhode Island:								
Providence.....	242,378	7	16			13	.05	-----
Tennessee:								
Memphis.....	170,067	6	12	7	.04	5	.03	71.4
Texas:								
Dallas.....	177,274	7	8	3	.02	2	.01	66.7
Fort Worth.....	143,821	4	2	2	.01	1	.01	50.0
Houston.....	154,970	6	4			3	.02	-----
San Antonio.....	184,727	6	7			7	.04	-----
Utah:								
Salt Lake City.....	126,241	5	5			3	.02	-----
Virginia:								
Norfolk.....	159,089	5	3	7	.04	3	.02	42.9
Richmond.....	181,044	6	3	2	.01	0		-----
Washington:								
Tacoma.....	101,731	6	4			4	.04	-----
Wisconsin:								
Milwaukee.....	484,595					5	.01	-----

## CHICKEN POX.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:							
Birmingham.....	195,901	196	238	1.21	0		-----
California:							
Los Angeles.....	666,853	1,016	1,484	2.23	0		-----
Oakland.....	240,086	245	395	1.65	1	0.00	395.0
San Francisco.....	539,038	1,401	953	1.77	1	.00	953.0
Colorado:							
Denver.....	272,031	970	921	3.39	0		-----
Connecticut:							
Bridgeport.....	<sup>1</sup> 143,555	200	104	.72	0		-----
Hartford.....	<sup>1</sup> 138,036	155	206	1.49	0		-----
New Haven.....	172,967		363	2.10	0		-----
Delaware:							
Wilmington.....	117,728	218	139	1.18	0		-----
District of Columbia:							
Washington.....	<sup>1</sup> 437,571	1,186	1,261	2.88	0		-----
Florida:							
Jacksonville.....	100,046		122	1.22	0		-----
Georgia:							
Atlanta.....	222,963	95	102	.46	0		-----
Illinois:							
Chicago.....	2,886,121	3,957	4,604	1.60	7	.00	657.7
Indiana:							
Indianapolis.....	342,718	1,011	964	2.81	0		-----
Iowa:							
Des Moines.....	140,923		26	.18	0		-----
Kansas:							
Kansas City.....	115,781	197	291	2.51	0		-----

<sup>1</sup>Population Jan. 1, 1920.



## Reported Prevalence for the Year 1923—Continued.

## CHICKEN POX—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Kentucky:							
Louisville.....	257,671	135	227	.88	0		
Maryland:							
Baltimore.....	773,580	2,207	2,766	3.58	4	0.01	691.5
Massachusetts:							
Boston.....	770,400	1,195	2,017	2.62	3	.00	672.3
Cambridge.....	111,444	342	585	5.25	0		
Fall River.....	120,912	69	130	1.08	0		
Lowell.....	115,089	51	73	.63	0		
Lynn.....	102,683	73	117	1.14	0		
New Bedford.....	130,072	62	114	.88	0		
Springfield.....	144,227	118	438	3.04	0		
Worcester.....	191,927	158	350	1.82	0		
Michigan:							
Detroit.....	995,608	1,788	2,209	2.22	0		
Flint.....	117,968	253	442	3.75	0		
Grand Rapids.....	145,947	189	355	2.43	0		
Minnesota:							
Duluth.....	106,289	252	190	1.79	0		
Minneapolis.....	409,125	1,643	2,603	6.36	0		
St. Paul.....	241,891	639	988	4.08	0		
Missouri:							
Kansas City.....	351,819	253	470	1.34	1	.00	470.0
St. Louis.....	803,853	1,094	1,219	1.52	1	.00	1,219.0
Nebraska:							
Omaha.....	204,382	271	171	.84	0		
New Jersey:							
Camden.....	124,157	110	155	1.25	0		
Elizabeth.....	103,947	244	263	2.53	0		
Jersey City.....	300,034	180	232	.75	0		
Newark.....	438,699	1,050	1,622	3.70	0		
Paterson.....	139,579	240	528	3.78	0		
Trenton.....	127,390	98	128	1.00	1	.01	128.0
New York:							
Albany.....	117,375	412	396	3.37	0		
Buffalo.....	536,718	871	939	1.75	0		
New York.....	5,927,625	5,738	8,671	1.46	7	.00	1,238.7
Rochester.....	317,867	292	424	1.33	0		
Syracuse.....	184,511	398	314	1.70	0		
Utica.....	103,457	322	293	2.83	0		
Yonkers.....	107,520	132	200	1.86	0		
Ohio:							
Akron.....	1208,435	274	421	2.02	0		
Cincinnati.....	406,312	381	460	1.13	0		
Cleveland.....	888,519	1,572	2,718	3.06	0		
Columbus.....	261,082		236	.90	0		
Dayton.....	165,530	141	139	.84	0		
Toledo.....	268,338	709	1,246	4.64	1	.00	1,246.0
Youngstown.....	132,358	198	392	2.96	0		
Oklahoma:							
Oklahoma.....	101,150	48	205	2.03	0		
Tulsa.....	102,018	50	29	.28	0		
Oregon:							
Portland.....	273,621	454	633	2.31	0		
Pennsylvania:							
Erie.....	112,571	488	344	3.06	0		
Philadelphia.....	1,922,788	3,609	3,923	2.04	4	.00	980.7
Pittsburgh.....	613,442	1,918	2,015	3.28	0		
Reading.....	110,917	307	466	4.29	0		
Scranton.....	140,636	43	64	.46	0		
Rhode Island:							
Providence.....	242,378	50	113	.47	0		
Tennessee:							
Memphis.....	170,067	412	417	2.45	0		
Nashville.....	121,128	46	94	.78	0		
Texas:							
Dallas.....	177,274	693	397	2.24	0		
Fort Worth.....	143,821		21	.15	0		
Houston.....	154,970		10	.06	0		
San Antonio.....	184,727	34	19	.10	0		
Utah:							
Salt Lake City.....	126,241	962	700	5.54	0		

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## CHICKEN POX—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Virginia:							
Norfolk .....	159,080	36	168	.68	0		
Richmond .....	181,044	112	299	1.32	0		
Washington:							
Seattle .....	1315,685	919	809	2.56	0		
Spokane .....	104,573	389	418	4.00	0		
Tacoma .....	101,731	227	252	2.48	0		
Wisconsin:							
Milwaukee .....	484,595	1,725	1,307	2.70	2	0.00	653.5
77 cities .....	29,740,184		59,997	2.02	33	.00	1,818.1

## DENGUE.

City.	Cases reported 1923.	Deaths registered, 1923.	City.	Cases reported 1923.	Deaths registered, 1923.
Alabama:			Texas:		
Birmingham .....	29	0	Dallas .....	18	0
Florida:			Houston .....		2
Jacksonville .....	12	1	San Antonio .....		4
Louisiana:					
New Orleans .....	12	1			

## DIPHTHERIA.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham .....	195,901	7	189	216	1.10	13	0.07	6.0
California:								
Los Angeles .....	666,853	7	1,472	2,515	3.77	119	.18	4.7
Oakland .....	240,086	7	276	722	3.01	60	.25	8.3
San Francisco .....	539,038	7	1,104	1,708	3.17	148	.27	8.7
Colorado:								
Denver .....	272,031	7	619	1,357	4.99	79	.29	5.8
Connecticut:								
Bridgeport .....	1143,555	7	406	356	2.48	25	.17	7.0
Hartford .....	1138,036	7	376	374	2.71	18	.13	4.8
New Haven .....	172,967	7	209	109	.63	8	.05	7.3
Delaware:								
Wilmington .....	117,728	6	88	157	1.33	20	.17	12.7
District of Columbia:								
Washington .....	1437,571	7	735	565	1.29	42	.10	7.4
Florida:								
Jacksonville .....	100,046	4	48	83	.83	19	.19	22.9
Georgia:								
Atlanta .....	222,963	7	234	218	.98	26	.12	11.9
Illinois:								
Chicago .....	2,886,121	7	7,367	5,836	2.02	365	.13	6.3
Indiana:								
Indianapolis .....	342,718	7	885	680	1.98	41	.12	6.0
Iowa:								
Des Moines .....	140,923	8	185	194	1.38	18	.13	9.3

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## DIPHTHERIA—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Kansas:								
Kansas City.....	115,781	6	188	133	1.15	3	0.03	2.3
Kentucky:								
Louisville.....	257,671	7	533	439	1.70	13	.05	3.0
Louisiana:								
New Orleans.....	404,575	7	602	693	1.71	32	.08	4.6
Maryland:								
Baltimore.....	773,580	7	1,175	1,318	1.70	90	.12	6.8
Massachusetts:								
Boston.....	770,400	7	2,832	3,276	4.25	173	.22	5.3
Cambridge.....	111,444	6	238	257	2.31	11	.10	4.3
Fall River.....	120,912	7	221	246	2.03	21	.17	8.5
Lowell.....	115,089	7	253	129	1.04	14	.12	11.7
Lynn.....	102,083	6	249	148	1.44	9	.09	6.1
New Bedford.....	130,072	7	144	115	.88	9	.07	7.8
Springfield.....	144,227	7	177	179	1.21	21	.15	11.7
Worcester.....	191,927	7	282	487	2.54	36	.19	7.4
Michigan:								
Detroit.....	995,668	7	3,618	2,424	2.43	205	.21	8.5
Flint.....	117,968	6	439	573	4.85	56	.47	9.8
Grand Rapids.....	145,947	7	262	308	2.11	13	.09	4.2
Minnesota:								
Duluth.....	106,289	7	193	143	1.35	7	.07	4.9
Minneapolis.....	409,125	7	1,007	1,138	2.78	51	.12	4.5
St. Paul.....	241,891	6	859	992	4.10	50	.21	5.0
Missouri:								
Kansas City.....	351,819	7	539	516	1.47	40	.11	7.8
St. Louis.....	803,853	7	3,124	1,543	1.92	55	.07	3.6
Nebraska:								
Omaha.....	204,382	6	338	452	2.21	37	.18	8.2
New Jersey:								
Camden.....	124,157	7	203	536	4.32	37	.30	6.9
Elizabeth.....	103,947	7	327	529	5.09	27	.28	5.1
Jersey City.....	309,034	7	854	483	1.56	34	.11	7.0
Newark.....	438,699	7	974	634	1.45	34	.08	5.4
Paterson.....	139,579	7	265	354	2.54	20	.14	5.6
Trenton.....	127,390	7	281	725	5.69	45	.35	6.2
New York:								
Albany.....	117,375	7	169	404	3.44	15	.13	3.7
Buffalo.....	536,718	7	1,009	686	1.28	56	.10	8.2
New York.....	5,927,625	7	13,045	8,050	1.36	553	.09	6.9
Rochester.....	317,867	7	499	371	1.17	35	.11	9.4
Syracuse.....	184,511	7	452	497	2.69	29	.16	5.8
Utica.....	103,457	7	118	347	3.35	21	.20	6.1
Yonkers.....	107,520	7	187	262	2.44	18	.17	6.9
Ohio:								
Akron.....	1208,435	5	331	294	1.41	21	.10	7.1
Cincinnati.....	406,312	7	757	575	1.42	22	.05	3.8
Cleveland.....	888,519	7	1,767	1,621	1.82	114	.13	7.0
Columbus.....	231,082	7	303	381	1.46	17	.07	4.5
Dayton.....	165,530	7	231	276	1.67	10	.06	3.6
Toledo.....	268,338	6	493	728	2.71	64	.24	8.8
Youngstown.....	132,358	6	187	903	6.82	69	.52	7.6
Oklahoma:								
Oklahoma.....	101,150	6	93	104	1.03	10	.10	9.6
Tulsa.....	102,018	3	29	90	.88	11	.11	12.2
Oregon:								
Portland.....	273,621	6	230	604	2.21	33	.12	5.5
Pennsylvania:								
Erie.....	112,571	7	217	196	1.74	14	.12	7.1
Philadelphia.....	1,922,788	7	3,100	3,310	1.72	270	.14	8.2
Pittsburgh.....	613,442	7	1,298	1,427	2.33	159	.26	11.1
Reading.....	110,917	7	200	157	1.42	20	.18	12.7
Scranton.....	140,636	7	256	135	.96	10	.07	7.4
Rhode Island:								
Providence.....	242,378	7	754	462	1.91	37	.15	8.0
Tennessee:								
Memphis.....	170,067	6	491	281	1.65	11	.06	3.9
Nashville.....	121,128	7	153	79	.65	5	.04	6.3

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## DIPHTHERIA—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Texas:								
Dallas.....	177,274	7	269	331	1.87	16	0.09	4.8
Fort Worth.....	143,821	7	100	139	1.97	4	.03	2.9
Houston.....	154,970	7	178	164	1.06	9	.06	5.5
San Antonio.....	184,727	7	149			16	.09	
Utah:								
Salt Lake City.....	126,241	7	166	166	1.31	13	.10	7.8
Virginia:								
Norfolk.....	159,089	5	125	160	1.01	11	.07	6.9
Richmond.....	181,044	7	359	223	1.23	12	.07	5.4
Washington:								
Seattle.....	1315,685	7	273	296	.94	19	.06	6.4
Spokane.....	104,573	7	102	239	2.29	7	.07	2.9
Tacoma.....	101,731	7	95	153	1.50	8	.08	5.2
Wisconsin:								
Milwaukee.....	484,595	7	816	1,043	2.15	101	.21	9.7
77 cities <sup>1</sup> .....	29,960,032		63,222	59,005	1.97	3,968	.13	6.7

## INFLUENZA.

City.	Estimated population, July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham.....	195,901	506	2.58	77	0.39	6.6
California:						
Los Angeles.....	666,853	1,251	1.88	72	.11	17.4
Oakland.....	240,086	188	.78	35	.15	5.4
San Francisco.....	539,038	757	1.40	122	.23	6.2
Colorado:						
Denver.....	272,031			75	.28	
Connecticut:						
Bridgeport.....	143,555			35	.24	
Hartford.....	138,036	70	.51	25	.18	2.8
New Haven.....	172,967	56	.32	32	.19	1.7
Delaware:						
Wilmington.....	117,728			37	.31	
District of Columbia:						
Washington.....	1437,571	410	.94	159	.36	2.6
Florida:						
Jacksonville.....	100,046	210	2.10	18	.18	11.7
Georgia:						
Atlanta.....	222,933	638	2.86	44	.20	14.5
Illinois:						
Chicago.....	2,886,121	2,884	1.00	428	.15	6.7
Indiana:						
Indianapolis.....	342,718			93	.27	
Iowa:						
Des Moines.....	140,923			65	.46	
Kansas:						
Kansas City.....	115,781	35	.30	10	.09	3.5
Kentucky:						
Louisville.....	257,671	747	2.90	40	.16	18.7
Louisiana:						
New Orleans.....	404,575	477	1.18	165	.41	2.9
Maryland:						
Baltimore.....	773,580	4,774	6.17	217	.28	22.0
Massachusetts:						
Boston.....	770,400	372	.48	97	.13	3.8
Cambridge.....	111,444	85	.74	8	.07	10.4
Fall River.....	120,912	39	.32	28	.23	1.4

<sup>1</sup> Population Jan. 1, 1923.<sup>2</sup> San Antonio, Texas, not included.

## Reported Prevalence for the Year 1923—Continued.

## INFLUENZA—Continued.

City.	Estimated population, July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
<b>Massachusetts—Continued.</b>						
Lowell.....	115,089	57	0.50	6	0.05	9.5
Lynn.....	102,683	38	.37	8	.08	4.7
New Bedford.....	130,072	22	.17	4	.03	5.5
Springfield.....	144,227	82	.57	42	.29	2.0
Worcester.....	191,927	50	.26	11	.06	4.5
<b>Michigan:</b>						
Detroit.....	995,668	270	.27	142	.14	1.9
Flint.....	117,968	66	.56	13	.11	5.1
Grand Rapids.....	145,947	48	.33	25	.17	1.9
<b>Minnesota:</b>						
Duluth.....	106,289	—	—	4	.04	—
Minneapolis.....	409,125	—	—	67	.16	—
St. Paul.....	241,891	—	—	51	.21	—
<b>Missouri:</b>						
Kansas City.....	351,819	259	.74	198	.56	1.3
St. Louis.....	803,853	24	.03	10	.01	2.4
<b>Nebraska:</b>						
Omaha.....	204,382	—	—	1	.00	—
<b>New Jersey:</b>						
Camden.....	124,157	15	.12	10	.08	1.5
Elizabeth.....	103,947	—	—	15	.14	—
Jersey City.....	309,034	—	—	82	.27	—
Newark.....	438,099	1,462	3.33	72	.16	20.3
Paterson.....	139,579	136	.97	28	.20	4.9
Trenton.....	127,390	70	.55	34	.27	2.1
<b>New York:</b>						
Albany.....	117,375	1,068	9.01	32	.27	33.1
Buffalo.....	530,718	135	.25	45	.08	3.0
New York.....	5,927,625	16,061	2.71	1,158	.20	13.9
Rochester.....	317,867	53	.14	23	.07	1.9
Syracuse.....	184,511	32	.17	20	.11	1.6
Utica.....	103,457	10	.10	6	—	—
Yonkers.....	107,520	8	.07	6	.05	1.3
<b>Ohio:</b>						
Akron.....	1208,455	46	.22	21	.10	2.2
Cincinnati.....	406,312	—	—	230	.57	—
Cleveland.....	888,519	729	.82	130	.15	5.6
Columbus.....	261,082	436	1.67	156	.00	2.8
Dayton.....	165,530	—	—	69	.42	—
Toledo.....	268,338	—	—	57	.21	—
Youngstown.....	132,358	—	—	40	.30	—
<b>Oklahoma:</b>						
Oklahoma.....	101,150	—	—	43	.43	—
Tulsa.....	102,018	—	—	15	.15	—
<b>Oregon:</b>						
Portland.....	273,621	—	—	50	.18	—
<b>Pennsylvania:</b>						
Erie.....	112,571	—	—	77	.68	—
Philadelphia.....	1,922,788	—	—	425	.22	—
Pittsburgh.....	613,442	—	—	233	.38	—
Reading.....	110,917	—	—	50	.45	—
Scranton.....	140,636	—	—	22	.16	—
<b>Rhode Island:</b>						
Providence.....	242,378	—	—	22	.09	—
<b>Tennessee:</b>						
Memphis.....	170,067	—	—	99	.58	—
Nashville.....	121,128	—	—	130	1.07	—
<b>Texas:</b>						
Dallas.....	177,274	—	—	83	.47	—
Fort Worth.....	143,821	—	—	21	.15	—
Houston.....	154,970	—	—	21	.14	—
San Antonio.....	184,727	—	—	22	.12	—
<b>Utah:</b>						
Salt Lake City.....	126,241	—	—	24	.19	—
<b>Virginia:</b>						
Richmond.....	181,044	—	—	52	.29	—
<b>Washington:</b>						
Seattle.....	1315,685	—	—	63	.20	—
Spokane.....	104,573	—	—	20	.19	—
Tacoma.....	101,731	—	—	13	.13	—
<b>Wisconsin:</b>						
Milwaukee.....	484,595	163	.34	29	.06	5.6
77 cities.....	29,985,670	—	—	6,206	.21	—

¹ Population Jan. 1, 1920.



## Reported Prevalence for the Year 1923—Continued.

## LETHARGIC ENCEPHALITIS.

City.	Cases reported, 1923.	Deaths registered, 1923	City.	Cases reported, 1923.	Deaths registered, 1923.
Alabama:			New Jersey:		
Birmingham.....	5	0	Camden.....		6
California:			Elizabeth.....		4
Los Angeles.....	30		Jersey City.....	6	
Oakland.....	2	0	Newark.....	40	23
San Francisco.....	34	20	Paterson.....		12
Colorado:			Trenton.....	4	4
Denver.....		5	New York:		
Connecticut:			Albany.....		5
Bridgeport.....	7	7	Buffalo.....	2	1
Hartford.....	12	5	New York.....	923	349
New Haven.....	10	10	Rochester.....	9	7
Delaware:			Syracuse.....	5	3
Wilmington.....		3	Utica.....	1	0
District of Columbia:			Yonkers.....	4	1
Washington.....	22		Ohio:		
Florida:			Akron.....	5	0
Jacksonville.....		3	Cincinnati.....	10	2
Illinois:			Cleveland.....	25	15
Chicago.....	70	19	Columbus.....		22
Indiana:			Dayton.....		5
Indianapolis.....		2	Toledo.....		6
Iowa:			Youngstown.....	1	0
Des Moines.....		6	Oklahoma:		
Louisiana:			Tulsa.....		1
New Orleans.....	8	5	Oregon:		
Maryland:			Portland.....	35	22
Baltimore.....	83	36	Pennsylvania:		
Massachusetts:			Erie.....	3	2
Boston.....	58	24	Philadelphia.....	116	53
Cambridge.....	10	3	Pittsburgh.....		9
Fall River.....	4	2	Reading.....		2
Lowell.....	2	1	Scranton.....		6
Lynn.....	7	1	Rhode Island:		
New Bedford.....	5	1	Providence.....	9	8
Springfield.....	6	2	Tennessee:		
Worcester.....	26	8	Memphis.....	2	2
Michigan:			Texas:		
Detroit.....	40	27	Houston.....		7
Flint.....	8		San Antonio.....		2
Grand Rapids.....	1	0	Utah:		
Minnesota:			Salt Lake City.....		3
Duluth.....		10	Virginia:		
Minneapolis.....		23	Norfolk.....	7	7
St. Paul.....		44	Richmond.....	2	2
Missouri:			Washington:		
Kansas City.....	16	14	Seattle.....	14	
St. Louis.....		25	Spokane.....	26	24
Nebraska:			Tacoma.....		12
Omaha.....		1	Wisconsin:		
			Milwaukee.....	7	4

## MALARIA.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham.....	195,901	213	1.09	7	0.04	30.4
California:						
Los Angeles.....	666,853	12	.02	3	.00	4.0
Oakland.....	240,086	5	.02	0		
San Francisco.....	539,038	5	.01	1	.00	5.0
Connecticut:						
Bridgeport.....	<sup>1</sup> 143,555	1	.01	0		
Hartford.....	<sup>1</sup> 138,036	6	.04	0		
New Haven.....	172,967	6	.03	0		

<sup>1</sup>Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## MALARIA—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Florida:						
Jacksonville.....	100,046	90	.90	5	.05	18.0
Georgia:						
Atlanta.....	222,963			2	.01	
Illinois:						
Chicago.....	2,896,121			10	.00	
Kentucky:						
Louisville.....	257,671			2	.01	
Louisiana:						
New Orleans.....	404,575	108	.27	7	.02	15.4
Maryland:						
Baltimore.....	773,580	33	.04	1	.00	33.0
Massachusetts:						
Boston.....	770,400	11	.01	0		
Cambridge.....	111,444	2	.02	0		
Lowell.....	115,089			1	.01	
Springfield.....	144,227	1	.01	0		
Michigan:						
Detroit.....	995,668	11	.01	0		
Missouri:						
Kansas City.....	351,819	4	.01	3	.01	1.3
St. Louis.....	803,853			7	.01	
New Jersey:						
Jersey City.....	300,034	1	.00	0		
Newark.....	438,699	11	.03	0		
Paterson.....	139,579	8	.06	0		
Trenton.....	127,390	1	.01	0		
New York:						
New York.....	5,927,625	52	.01	3	.00	17.3
Ohio:						
Akron.....	<sup>1</sup> 208,435	3	.01	0		
Oklahoma:						
Oklahoma.....	101,150			1	.01	
Pennsylvania:						
Philadelphia.....	1,922,788	11	.01	2	.00	5.5
Rhode Island:						
Providence.....	242,378			1	.00	
Tennessee:						
Memphis.....	170,067	450	2.65	22	.13	20.5
Nashville.....	121,128	2	.02	0		
Texas:						
Dallas.....	177,274	14	.08	12	.07	1.2
Houston.....	154,970			19	.12	
San Antonio.....	184,727			8	.04	
Virginia:						
Norfolk.....	150,089	4	.03	0		
Richmond.....	181,044	2	.01	0		
36 cities.....	20,590,209			117	.01	

## MEASLES.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	195,901	7	275	2,481	12.66	30	0.15	1.2
California:								
Los Angeles.....	666,853	5	1,606	3,688	5.53	21	.03	.6
Oakland.....	240,036	7	445	1,797	7.48	13	.05	.7
San Francisco.....	539,038	6	1,466	3,908	7.25	21	.04	.5
Colorado:								
Denver.....	272,031	6	1,593	4,052	14.90	36	.13	.9

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## MEASLES—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Connecticut:								
Bridgeport.....	1 143,555	6	358	916	6.38	35	.24	3.8
Hartford.....	1 138,036	7	573	67	.49	1	.01	1.5
New Haven.....	172,967	5	493	957	5.53	5	.03	.5
Delaware:								
Wilmington.....	117,728	6	154	1,961	16.66	32	.27	1.6
District of Columbia:								
Washington.....	1 437,571	6	1,979	7,610	17.39	34	.08	.4
Florida:								
Jacksonville.....	160,046	3	382	1,181	11.80	6	.06	.5
Georgia:								
Atlanta.....	222,963	5	372	743	3.33	37	.17	5.0
Illinois:								
Chicago.....	2,886,121	7	9,025	15,168	5.26	206	.07	1.4
Indiana:								
Indianapolis.....	342,718	4	1,016	6,750	19.70	6	.02	.1
Iowa:								
Des Moines.....	140,923	3	57	54	.38	4	.03	7.4
Kansas:								
Kansas City.....	115,781	6	458	2,414	20.85	2	.02	.1
Kentucky:								
Louisville.....	257,671	6	507	824	3.20	1	.00	.1
Louisiana:								
New Orleans.....	404,575	5	589	411	1.02	33	.08	8.0
Maryland:								
Baltimore.....	773,580	6	3,797	8,289	10.72	56	.07	.7
Massachusetts:								
Boston.....	770,400	7	4,974	5,023	6.52	57	.07	1.1
Cambridge.....	111,444	6	1,035	1,243	11.15	7	.06	.6
Fall River.....	120,912	7	606	537	4.44	27	.22	5.0
Lowell.....	115,089	7	501	1,324	11.50	12	.10	.9
Lynn.....	102,683	6	309	1,113	10.84	12	.12	1.1
New Bedford.....	130,072	7	439	1,804	13.87	4	.03	.2
Springfield.....	144,227	5	529	121	.84	0		
Worcester.....	191,927	5	322	921	4.80	6	.03	.7
Michigan:								
Detroit.....	995,668	6	2,020	4,597	4.62	85	.09	1.8
Flint.....	117,968	5	320	1,032	8.75	4	.03	.4
Grand Rapids.....	145,947	5	327	3,101	21.25	3	.02	.1
Minnesota:								
Duluth.....	106,289	6	305	1,751	16.47	2	.02	.1
Minneapolis.....	409,125	5	863			51	.12	
St. Paul.....	241,891	5	821	4,897	20.24	44	.18	.9
Missouri:								
Kansas City.....	351,819	7	1,278	3,330	9.47	52	.15	1.6
St. Louis.....	803,853	4	1,148	11,029	13.72	55	.07	.5
Nebraska:								
Omaha.....	204,382	7	611	154	.75	0		
New Jersey:								
Camden.....	124,157	6	248	1,464	11.79	22	.18	1.5
Elizabeth.....	103,947	5	351	990	9.58	11	.11	1.1
Jersey City.....	309,034	7	1,021	487	1.58	16	.05	3.3
Newark.....	438,699	7	3,956	4,680	10.67	41	.09	.9
Paterson.....	139,579	5	877	1,051	7.53	8	.06	.8
Trenton.....	127,390	7	340	138	1.08	3	.02	2.2
New York:								
Albany.....	117,375	6	658	1,438	12.25	7	.06	.5
Buffalo.....	536,718	4	1,044	5,527	10.30	71	.13	1.3
New York.....	5,927,625	7	24,183	13,999	2.36	245	.04	1.8
Rochester.....	317,867	7	1,561	1,826	5.74	31	.10	1.7
Syracuse.....	184,511	5	641	3,371	18.27	45	.24	1.3
Utica.....	103,457	7	755	1,181	11.42	0		
Yonkers.....	107,520	6	588	337	3.13	3	.03	.9
Ohio:								
Akron.....	1 208,435	6	1,017	939	4.51	8	.04	.9
Cincinnati.....	406,312	6	1,061	1,410	3.47	19	.05	1.3
Cleveland.....	888,519	7	2,656	6,411	7.22	29	.03	.5
Columbus.....	261,082	7	991	2,173	8.32	28	.11	1.3
Dayton.....	165,530	5	280	480	2.90	13	.08	2.7
Toledo.....	268,338	6	1,901	3,178	11.84	25	.09	.8
Youngstown.....	1 132,358	7	536	1,140	8.61	27	.20	2.4

1 Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## MEASLES—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Oklahoma:								
Oklahoma.....	101,150	5	138	306	3.03	0	-----	-----
Tulsa.....	102,018	3	113	385	3.77	4	.04	1.0
Oregon:								
Portland.....	273,621	7	1,397	3,684	13.46	13	.05	.4
Pennsylvania:								
Erie.....	112,571	7	869	1,846	16.40	11	.10	.6
Philadelphia.....	1,922,788	7	8,792	7,997	4.16	223	.12	2.8
Pittsburgh.....	613,442	6	4,028	7,662	12.49	118	.19	1.5
Reading.....	110,917	5	519	1,551	13.98	22	.20	1.4
Scranton.....	140,636	7	264	1,118	7.95	21	.15	1.9
Rhode Island:								
Providence.....	242,378	7	1,022	4,627	19.09	120	.50	2.6
Tennessee:								
Memphis.....	170,067	5	629	3,634	21.37	23	.14	.6
Nashville.....	121,128	7	408	2,686	22.17	60	.50	2.2
Texas:								
Dallas.....	177,274	6	685	2,029	11.45	3	.02	.1
Fort Worth.....	143,821	7	54	8	.06	0	-----	-----
Houston.....	154,970	5	277	22	.14	0	-----	-----
San Antonio.....	184,727	7	140	85	.46	3	.02	3.5
Utah:								
Salt Lake City.....	126,241	6	1,079	252	2.00	1	.01	.4
Virginia:								
Norfolk.....	159,089	4	193	1,524	9.58	3	.02	.2
Richmond.....	181,044	7	1,424	4,274	23.61	31	.17	.7
Washington:								
Seattle.....	1315,685	7	1,572	2,321	7.35	5	.02	.2
Spokane.....	104,573	5	479	2,880	27.54	3	.03	.1
Tacoma.....	101,731	7	249	188	1.85	0	-----	-----
Wisconsin:								
Milwaukee.....	484,595	5	2,856	4,819	9.94	7	.01	.1
77 cities <sup>1</sup> .....	29,735,634	-----	112,542	211,372	7.11	2,272	.08	1.1

## MUMPS.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:							
Birmingham.....	195,901	55	63	0.32	0	-----	-----
California:							
Los Angeles.....	666,853	416	85	.13	0	-----	-----
Oakland.....	240,086	17	20	.08	1	0.00	20.0
San Francisco.....	539,038	244	92	.17	0	-----	-----
Colorado:							
Denver.....	272,031	598	72	.26	0	-----	-----
Connecticut:							
Bridgeport.....	143,555	20	52	.36	0	-----	-----
Hartford.....	138,036	29	21	.15	0	-----	-----
Delaware:							
Wilmington.....	117,728	-----	11	.09	0	-----	-----
Florida:							
Jacksonville.....	100,046	-----	7	.07	0	-----	-----
Georgia:							
Atlanta.....	222,963	75	100	.45	0	-----	-----

<sup>1</sup> Population Jan. 1, 1920.<sup>2</sup> Minneapolis, Minn., not included.

## Reported Prevalence for the Year 1923—Continued.

## MUMPS—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Illinois:							
Chicago.....	2,886,121	933	1,868	0.65	1	0.00	1,868.0
Indiana:							
Indianapolis.....	342,718	155	758	2.21	0		
Iowa:							
Des Moines.....	140,923		1	.01	0		
Kansas:							
Kansas City.....	115,781	53	850	7.34	1	.01	850.0
Kentucky:							
Louisville.....	257,671		20	.08	0		
Maryland:							
Baltimore.....	773,580	3,005	1,300	1.68	2	.00	650.0
Massachusetts:							
Boston.....	770,400	1,092	1,624	2.11	0		
Cambridge.....	111,444	338	425	3.81	0		
Fall River.....	120,912	108	17	.14	0		
Lowell.....	115,089	13	122	1.06	0		
Lynn.....	102,683	24	41	.40	0		
New Bedford.....	130,072	19	8	.06	0		
Springfield.....	144,227	263	204	1.41	0		
Worcester.....	191,927	9	259	1.35	0		
Michigan:							
Detroit.....	995,668	306	896	.90	3	.00	298.7
Flint.....	117,968	72	138	1.17	0		
Grand Rapids.....	145,947	82	131	.90	0		
Minnesota:							
Duluth.....	106,289	344	198	1.86	0		
St. Paul.....	241,891	61	77	.32	0		
Missouri:							
Kansas City.....	351,819	159	218	.62	0		
St. Louis.....	803,853	174	272	.34	0		
Nebraska:							
Omaha.....	204,382	315	6	.03	0		
New Jersey:							
Camden.....	124,157	55	37	.30	0		
Elizabeth.....	103,947	196	294	2.83	0		
Jersey City.....	309,034	4	33	.11	0		
Newark.....	438,699	718	661	1.51	0		
Paterson.....	139,579	61	63	.45	0		
Trenton.....	127,390	4	20	.16	0		
New York:							
Albany.....	117,375	187	580	4.94	0		
Buffalo.....	536,718	275	210	.39	0		
New York.....	5,927,625	3,108	3,817	.64	4	.00	954.2
Rochester.....	317,867	391	40	.13	0		
Syracuse.....	184,511	294	239	1.30	0		
Utica.....	103,457	12	179	1.73	0		
Yonkers.....	107,520	199	98	.91	1	.01	98.0
Ohio:							
Akron.....	1208,435	46	31	.15	0		
Cincinnati.....	406,312		115	.28	0		
Cleveland.....	888,519	266	620	.70	0		
Toledo.....	268,338	13	17	.06	0		
Youngstown.....	132,358	7	15	.11	0		
Oklahoma:							
Oklahoma.....	101,150		84	.83	0		
Oregon:							
Portland.....	273,621	110	75	.27	1	.00	75.0
Pennsylvania:							
Erie.....	112,571	97	11	.10	0		
Philadelphia.....	1,922,788	889	917	.48	0		
Pittsburgh.....	613,442	511	315	.51	0		
Reading.....	110,917	23	38	.34	0		
Scranton.....	140,636	31	76	.54	0		
Rhode Island:							
Providence.....	242,378	84	28	.12	0		
Tennessee:							
Memphis.....	170,067	43	13	.08	0		
Nashville.....	121,128	32	78	.64	0		
Texas:							
Dallas.....	177,274	25	140	.79	0		
Fort Worth.....	143,821	1	5	.03	0		

1 Population Jan. 1, 1920.



## Reported Prevalence for the Year 1923—Continued.

## MUMPS—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Utah:							
Salt Lake City.....	126,241	288	1,626	12.88	0		
Virginia:							
Norfolk.....	159,069	13	3	.02	0		
Richmond.....	181,044	22	23	.13	0		
Washington:							
Seattle.....	315,685	794	139	.44	0		
Spokane.....	104,573	24	10	.10	0		
Tacoma.....	101,731	26	281	2.76	0		
Wisconsin:							
Milwaukee.....	484,595	1,600	116	.24	0		
69 cities.....	27,832,194		21,009	.75	14	0.09	1,500.6

## PELLAGRA.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:								
Birmingham.....	195,901			22	0.11	13	0.07	1.7
California:								
Los Angeles.....	666,853	7	5			4	.01	
Oakland.....	240,086	7	0	4	.02	2	.01	2.0
San Francisco.....	539,038	5	1			1	.00	
Florida:								
Jacksonville.....	100,046					14	.14	
Georgia:								
Atlanta.....	222,963					38	.17	
Illinois:								
Chicago.....	2,886,121					2	.00	
Kentucky:								
Louisville.....	257,671	5	2			1	.00	
Louisiana:								
New Orleans.....	404,575	7	30			20	.05	
Maryland:								
Baltimore.....	773,580					5	.01	
Massachusetts:								
Boston.....	770,400	7	5	8	.01	6	.01	1.3
Lowell.....	115,089	7	0			1	.01	
Michigan:								
Detroit.....	995,668	4	1			1	.00	
Flint.....	117,968	6	0			1	.01	
Minnesota:								
St. Paul.....	241,891	7	0			1	.00	
Missouri:								
Kansas City.....	351,819	6	0			1	.00	
St. Louis.....	803,853					2	.00	
Nebraska:								
Omaha.....	204,382	6	0			1	.00	
New Jersey:								
Paterson.....	139,579	7	0			1	.01	
New York:								
New York.....	5,927,625	3	5			7	.00	
Oklahoma:								
Oklahoma.....	101,150	2	5			6	.06	
Tulsa.....	102,018	2	2			2	.02	
Pennsylvania:								
Philadelphia.....	1,922,788	5	2			8	.00	
Rhode Island:								
Providence.....	242,378	7	0			1	.00	

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## PELLAGRA—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Tennessee:								
Memphis.....	170,067			19	.11	13	.08	1.5
Nashville.....	121,128					10	.08	
Texas:								
Dallas.....	177,274	5	27			17	.10	
Fort Worth.....	143,821			13	.09	0		
Houston.....	154,970					17	.11	
San Antonio.....	184,727					5	.03	
Virginia:								
Norfolk.....	159,089					6	.04	
Richmond.....	181,044					4	.02	
32 Cities.....	19,615,562					211	.01	

## PNEUMONIA.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham.....	195,901	630	3.22	361	1.84	1.7
California:						
Los Angeles.....	666,853	1,909	2.86	775	1.16	2.5
Oakland.....	240,086	276	1.15	205	.85	1.3
San Francisco.....	539,038	1,612	1.14	669	1.21	
Colorado:						
Denver.....	272,031			488	1.79	
Connecticut:						
Bridgeport.....	143,555	1,177	1.23	211	1.47	
Hartford.....	138,036	1,130	1.94	176	1.55	1.7
New Haven.....	172,967	1,294	1.70	267	1.54	
Delaware:						
Wilmington.....	117,728			208	1.77	
District of Columbia:						
Washington.....	437,571			1,015	2.32	
Florida:						
Jacksonville.....	100,046			114	1.14	
Georgia:						
Atlanta.....	222,963	702	3.15	643	2.88	1.1
Illinois:						
Chicago.....	2,886,121	11,628	4.03	3,745	1.30	3.1
Indiana:						
Indianapolis.....	342,718			578	1.69	
Iowa:						
Des Moines.....	140,923			166	1.18	
Kansas:						
Kansas City.....	115,781	255	2.20	185	1.60	1.4
Kentucky:						
Louisville.....	257,671	760	2.95	547	2.12	1.4
Louisiana:						
New Orleans.....	404,575	689	1.70	623	1.54	1.1
Maryland:						
Baltimore.....	773,580	2,910	3.76	1,532	1.98	1.9
Massachusetts:						
Boston.....	770,400	1,330	1.73	1,312	1.70	
Cambridge.....	111,444	1,197	1.77	76	.68	
Fall River.....	120,912	1,97	1.80	134	1.11	
Lowell.....	115,089	1,136	1.18	265	2.30	
Lynn.....	102,683	1,156	1.52	61	.59	
New Bedford.....	130,672	1,97	1.75	88	.68	
Springfield.....	144,227	1,215	1.49	70	.49	
Worcester.....	191,927	1,285	1.48	301	1.57	

<sup>1</sup> Lobar pneumonia only.<sup>2</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## PNEUMONIA—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Michigan:						
Detroit.....	995,668	3,547	3.56	1,949	1.96	1.8
Flint.....	117,968	228	1.93	212	1.80	1.1
Grand Rapids.....	145,947	340	2.33	192	1.32	1.8
Minnesota:						
Duluth.....	106,289			162	.96	
Minneapolis.....	409,125			336	.82	
St. Paul.....	241,891			307	1.27	
Missouri:						
Kansas City.....	351,819	860	2.44	627	1.78	1.4
St. Louis.....	863,853			1,747	2.17	
Nebraska:						
Omaha.....	204,382			287	1.40	
New Jersey:						
Camden.....	124,157			321	2.59	
Elizabeth.....	163,947			154	1.48	
Jersey City.....	309,034			517	1.67	
Newark.....	438,699	2,531	5.77	547	1.25	4.6
Paterson.....	139,579			250	1.65	
Trenton.....	127,390	203	2.30	173	1.36	1.7
New York:						
Albany.....	117,375	618	5.27	176	1.50	3.5
Buffalo.....	536,718	1,470	2.74	613	1.14	2.4
New York.....	5,927,625	15,952	2.69	8,231	1.39	1.9
Rochester.....	317,867	977	3.07	235	.74	4.2
Syracuse.....	184,511	614	3.33	251	1.36	2.4
Yonkers.....	107,520			121	1.13	
Ohio:						
Akron.....	208,435	246	1.18	231	1.11	1.1
Cincinnati.....	406,312			619	1.52	
Cleveland.....	888,519	2,191	2.47	1,181	1.33	1.9
Columbus.....	261,082			363	1.39	
Dayton.....	165,530			190	1.15	
Toledo.....	208,338			282	1.05	
Youngstown.....	132,358			204	1.54	
Oklahoma:						
Oklahoma.....	101,150			176	1.74	
Tulsa.....	102,018			140	1.37	
Oregon:						
Portland.....	273,621			278	1.02	
Pennsylvania:						
Erie.....	112,571			148	1.31	
Philadelphia.....	1,922,788	4,287	2.23	3,260	1.70	1.3
Pittsburgh.....	613,442			2,227	3.74	
Reading.....	110,917			143	1.29	
Scranton.....	140,636			223	1.59	
Rhode Island:						
Providence.....	242,378			377	1.56	
Tennessee:						
Memphis.....	170,067			491	2.89	
Nashville.....	121,128			231	1.91	
Texas:						
Dallas.....	177,274			193	1.09	
Fort Worth.....	143,821	173	1.20			
Houston.....	154,970			171	1.10	
San Antonio.....	184,727			227	1.23	
Utah:						
Salt Lake City.....	126,241			130	1.03	
Virginia:						
Norfolk.....	159,089			204	1.28	
Richmond.....	181,044			246	1.36	
Washington:						
Seattle.....	315,685		*	213	.67	
Spokane.....	104,573	115	1.10	95	.91	1.2
Tacoma.....	101,731			101	.99	
Wisconsin:						
Milwaukee.....	484,595			670	1.38	
75 cities <sup>1</sup> .....	29,759,445			45,051	1.51	

<sup>1</sup> Population Jan. 1, 1920.<sup>2</sup> Hartford, Conn., and Fort Worth, Tex., not included.

## Reported Prevalence for the Year 1923—Continued.

## POLIOMYELITIS.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham	195,901	7	4	6	0.03	3	0.02	50.0
California:								
Los Angeles	666,853	7	15	70	.10	6	.01	8.6
Oakland	240,086	6	2	3	.01	0		
San Francisco	539,038	7	6	4	.01	1	.00	25.0
Colorado:								
Denver	272,031	6	2	5	.02	0		
Connecticut:								
Bridgeport	143,555	5	4	7	.05	0		
Hartford	138,036	5	2	6	.04			
New Haven	172,967	7	6	8	.05	0		
District of Columbia:								
Washington	1437,571	7	6	19	.04	1	.00	5.3
Florida:								
Jacksonville	100,046	4	1	2	.02	0		
Georgia:								
Atlanta	222,963	7	1			1	.00	
Illinois:								
Chicago	2,886,121	5	94	86	.03	4	.00	4.7
Indiana:								
Indianapolis	342,718	7	3	4	.01	2	.01	50.0
Iowa:								
Des Moines	140,923	4	4			5	.04	
Kentucky:								
Louisville	257,671	6	2			3	.01	
Louisiana:								
New Orleans	404,575	7	4	10	.02	2	.00	20.0
Maryland:								
Baltimore	773,580	4	20	11	.01	1	.00	9.1
Massachusetts:								
Boston	770,400	5	31	50	.06	10	.01	20.0
Cambridge	111,444	6	4	3	.03	0		
Fall River	120,912	7	4	6	.05	2	.02	33.3
Lowell	115,089	7	8	36	.31	5	.04	13.9
Lynn	102,683	4	5	4	.04	1	.01	25.0
New Bedford	130,072	6	5	3	.02	0		
Springfield	144,227	6	5	8	.06	0		
Worcester	191,927	6	5	10	.05	7	.04	70.0
Michigan:								
Detroit	995,668	7	17	9	.01	6	.01	66.7
Flint	117,968	5	10	2	.02	0		
Grand Rapids	145,947	7	4	4	.03	3	.02	75.0
Minnesota:								
Minneapolis	409,125	5	6	4	.01	2	.00	50.0
St. Paul	241,891	5	5	6	.02	1	.00	16.7
Missouri:								
Kansas City	351,819	5	3	3	.01	0		
St. Louis	803,853	5	16	10	.01	2	.00	20.0
Nebraska:								
Omaha	204,382	6	4	58	.28	6	.03	10.3
New Jersey:								
Camden	124,157	7	1	1	.01	0		
Elizabeth	103,947	7	2			1	.01	
Jersey City	309,034	6	4	4	.01			
Newark	438,699	6	20	48	.11	4	.01	8.3
Paterson	19,579	6	6	6	.04	0		
Trenton	127,390	7	2	4	.03	0		
New York:								
Albany	117,375	6	1	6	.05	0		
Buffalo	536,718	7	7	11	.02	2	.00	18.2
New York	5,927,625	6	213	585	.10	54	.01	9.2
Rochester	317,867	6	6			2	.01	
Syracuse	184,511	7	5	8	.04	1	.01	12.5
Utica	103,457	6	1	5	.05	1	.01	20.0
Yonkers	107,520	7	3	7	.07	1	.01	14.3
Ohio:								
Akron	1208,435	5	5	2	.01	0		
Cincinnati	406,312	5	5	2	.00	0		
Cleveland	888,519	7	23	13	.01	1	.00	7.7
Columbus	261,082	6	4			2	.01	
Youngstown	132,358	7	3	3	.02	0		

1 Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## POLIOMYELITIS—Continued

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Oregon:								
Portland.....	273, 621	7	3	1	.00	0		
Pennsylvania:								
Erie.....	112, 571	7	5	2	.02	0		
Philadelphia.....	1, 922, 788	7	22	18	.01	4	.00	22.2
Pittsburgh.....	613, 442	7	21	10	.02	2	.00	20.0
Reading.....	110, 917	7	1	1	.01	0		
Rhode Island:								
Providence.....	242, 378	5	6	4	.02	0		
Tennessee:								
Memphis.....	170, 067	5	1	3	.02	0		
Nashville.....	121, 128	6	1				.01	
Texas:								
Dallas.....	177, 274	7	4	3	.02	0		
Fort Worth.....	143, 821	6	1	1	.01			
Houston.....	154, 970	7	1	4	.03	0		
San Antonio.....	184, 727	7	1	1	.01	0		
Utah:								
Salt Lake City.....	126, 241	5	3	1	.01			
Virginia:								
Richmond.....	181, 044	7	5	1	.01	0		
Washington:								
Spokane.....	104, 573	7	1			1	.01	
Tacoma.....	101, 731	7	1	2	.02	1	.01	50.0
Wisconsin:								
Milwaukee.....	484, 595	5	15	20	.04	2	.00	10.0

## RABIES IN ANIMALS.

City.	Cases reported, 1923.	City.	Cases reported, 1923.
California:		Missouri:	
Los Angeles.....	591	Kansas City.....	92
Oakland.....	2	New Jersey:	
District of Columbia:		Elizabeth.....	8
Washington.....	43	Jersey City.....	30
Florida:		Newark.....	21
Jacksonville.....	12	Ohio:	
Illinois:		Cleveland.....	45
Chicago.....	57	Columbus.....	2
Kentucky:		Tennessee:	
Louisville.....	40	Memphis.....	74
Massachusetts:		Texas:	
Boston.....	39	Dallas.....	29
Michigan:		Houston.....	199
Detroit.....	33		
Grand Rapids.....	1		

## RABIES IN MAN.

City.	Cases reported, 1923.	City.	Cases reported, 1923.
California:		New York:	
Los Angeles.....	6	New York.....	3
Massachusetts:		Texas:	
Boston.....	1	Houston.....	1
Missouri:			
St. Louis.....	2		



## Reported Prevalence for the Year 1923—Continued.

## SCARLET FEVER.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	195,901	7	182	105	0.54	2	0.01	1.9
California:								
Los Angeles.....	666,853	7	504	1,603	2.40	16	.02	1.0
Oakland.....	240,086	7	295	397	1.65	3	.01	.8
San Francisco.....	539,038	7	569	897	1.66	12	.02	1.3
Colorado:								
Denver.....	272,031	7	359	705	2.59	3	.01	.4
Connecticut:								
Bridgeport.....	<sup>1</sup> 143,555	7	139	421	2.93	2	.01	.5
Hartford.....	<sup>1</sup> 138,036	7	170	240	1.74	1	.01	.4
New Haven.....	172,967	7	207	288	1.67	6	.03	2.1
Delaware:								
Wilmington.....	117,728	5	162	433	3.68	10	.08	2.3
District of Columbia:								
Washington.....	<sup>1</sup> 437,571	7	665	998	2.28	11	.03	1.1
Florida:								
Jacksonville.....	100,046	4	27	11	.11	1	.01	9.1
Georgia:								
Atlanta.....	222,963	7	183	212	.95	2	.01	.9
Illinois:								
Chicago.....	2,886,121	4	3,629	3,529	1.22	84	.03	2.4
Indiana:								
Indianapolis.....	342,718	6	649	167	.49	0	-----	-----
Iowa:								
Des Moines.....	140,923	5	200	942	6.68	16	.11	1.7
Kansas:								
Kansas City.....	115,781	6	200	210	1.81	0	-----	-----
Kentucky:								
Louisville.....	257,671	7	153	107	.42	0	-----	-----
Louisiana:								
New Orleans.....	404,575	7	159	190	.47	4	.01	2.1
Maryland:								
Baltimore.....	773,580	7	1,065	2,238	2.89	23	.03	1.0
Massachusetts:								
Boston.....	770,400	7	1,748	3,211	4.17	58	.08	1.8
Cambridge.....	111,444	6	205	508	4.56	3	.03	.6
Fall River.....	120,912	7	110	222	1.84	4	.03	1.8
Lowell.....	115,089	7	102	227	1.97	4	.03	1.8
Lynn.....	102,683	6	187	260	2.53	1	.01	.4
New Bedford.....	130,072	7	161	78	.60	3	.02	3.8
Springfield.....	144,227	7	240	330	2.29	3	.02	.9
Worcester.....	191,027	7	377	692	3.61	6	.03	.9
Michigan:								
Detroit.....	995,668	7	2,955	4,162	4.18	86	.09	2.1
Flint.....	117,968	5	326	385	3.26	8	.07	2.1
Grand Rapids.....	145,947	7	297	428	2.93	3	.02	.7
Minnesota:								
Duluth.....	106,289	7	216	409	3.85	-----	-----	-----
Minneapolis.....	409,125	7	713	1,909	4.67	33	.08	1.7
St. Paul.....	241,891	7	526	1,432	5.92	29	.12	2.0
Missouri:								
Kansas City.....	351,819	5	364	500	1.42	8	.02	1.6
St. Louis.....	803,853	7	1,175	1,390	1.73	25	.03	1.8
Nebraska:								
Omaha.....	204,382	7	412	178	.87	1	.00	.6
New Jersey:								
Camden.....	124,157	7	128	78	.63	0	-----	-----
Elizabeth.....	103,947	7	268	244	2.35	2	.02	.8
Jersey City.....	309,034	7	495	420	1.36	10	.03	2.4
Newark.....	438,699	5	757	596	1.56	5	.01	.8
Paterson.....	139,579	7	124	213	1.53	4	.03	1.9
Trenton.....	127,390	7	94	280	2.20	4	.03	1.4
New York:								
Albany.....	117,375	7	118	437	3.72	5	.04	1.1
Buffalo.....	536,718	7	651	1,227	2.29	28	.05	2.3
New York.....	5,927,625	7	6,260	8,237	1.39	107	.02	1.3
Rochester.....	317,867	6	357	227	.71	5	.02	2.2
Syracuse.....	184,511	7	564	838	4.54	8	.04	1.0
Utica.....	103,457	6	90	316	3.05	3	.03	.9
Yonkers.....	107,520	7	207	278	2.59	5	.05	1.8

<sup>1</sup> Population Jan. 1, 1920

## Reported Prevalence for the Year 1923—Continued.

## SCARLET FEVER—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Ohio:								
Akron.....	1 208,435	6	427	328	1.57	19	0.69	5.8
Cincinnati.....	406,312	7	411	596	1.47	18	.04	3.0
Cleveland.....	888,519	7	1,417	3,653	4.11	58	.07	1.6
Columbus.....	261,082	7	403	341	1.31	4	.02	1.2
Dayton.....	165,530	7	236	440	2.66	7	.04	1.6
Toledo.....	268,338	6	491	1,267	4.72	17	.06	1.3
Youngstown.....	1 132,358	7	246	395	2.98	23	.17	5.8
Oklahoma:								
Oklahoma.....	101,150	6	124	146	1.44	1	.01	.7
Tulsa.....	102,018	3	63	70	.69	0		
Oregon:								
Portland.....	273,621	7	371	246	.90	1	.00	.4
Pennsylvania:								
Erie.....	112,571	7	152	355	3.15	8	.07	2.3
Philadelphia.....	1,922,788	6	2,498	2,233	1.16	34	.02	1.5
Pittsburgh.....	613,442	7	1,030	1,350	2.20	113	.18	8.4
Reading.....	110,917	7	84	47	.42	1	.01	2.1
Scranton.....	140,636	7	171	54	.38	1	.01	1.9
Rhode Island:								
Providence.....	242,378	7	423	696	2.87	4	.02	.6
Tennessee:								
Memphis.....	170,067	6	184	161	.95	3	.02	1.9
Nashville.....	121,128	7	122	98	.81	3	.02	3.1
Texas:								
Dallas.....	177,274	7	97	165	.93	2	.01	1.2
Fort Worth.....	143,821	7	57	65	.45	1	.01	1.5
Houston.....	154,970	7	42	105	.68	0		
San Antonio.....	184,727	6	31	32	.17	0		
Utah:								
Salt Lake City.....	126,241	6	257	67	.53	2	.02	3.6
Virginia:								
Norfolk.....	159,089	5	82	82	.52	1	.01	1.2
Richmond.....	181,044	7	229	238	1.31	1	.01	.4
Washington:								
Seattle.....	1 315,685	7	394	454	1.44	6	.02	1.3
Spokane.....	104,573	7	171	317	3.03	3	.03	.9
Tacoma.....	101,731	7	108	338	3.32	5	.05	1.5
Wisconsin:								
Milwaukee.....	484,595	7	1,322	4,973	10.26	71	.15	1.4
77 cities <sup>2</sup> .....	30,038,470		41,471	62,308	2.07	1,064	.04	1.7

<sup>1</sup> Population Jan. 1, 1920.<sup>2</sup> Duluth, Minn., not included.

## Reported Prevalence for the Year 1923—Continued.

## SEPTIC SORE THROAT.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
California:						
Oakland.....	240,086			2	0.01	
San Francisco.....	539,038			21	.04	
Connecticut:						
Bridgeport.....	<sup>1</sup> 143,555	3	.02	2	.01	1.5
Hartford.....	<sup>1</sup> 138,036	2	.01			
New Haven.....	172,967	2	.01	1	.01	2.0
Illinois:						
Chicago.....	2,886,121	107	.04	24	.01	4.5
Iowa:						
Des Moines.....	140,923			5	.04	
Maryland:						
Baltimore.....	773,580	20	.03			
Massachusetts:						
Boston.....	770,400	42	.05	10	.01	4.2
Cambridge.....	111,444	7	.06	0		
Fall River.....	120,912	8	.07			
Lowell.....	115,089	4	.03	2	.02	2.0
Lynn.....	102,683	2	.02	0		
New Bedford.....	130,072	4	.03	1	.01	4.0
Springfield.....	144,227	2	.01	1	.01	2.0
Worcester.....	191,927	1	.00	0		
Michigan:						
Detroit.....	995,668	3	.00	0		
Flint.....	117,968	4	.03			
Minnesota:						
Minneapolis.....	409,125			5	.01	
New Jersey:						
Newark.....	438,699			12	.03	
New York:						
Albany.....	117,375	1	.01	0		
New York.....	5,927,625			46	.01	
Rochester.....	317,867			1	.00	
Ohio:						
Akron.....	<sup>1</sup> 208,435	2	.01	0		
Cleveland.....	888,519	616	.69	0		
Oklahoma:						
Tulsa.....	102,018			2	.02	
Oregon:						
Portland.....	273,621			4	.01	
Texas:						
Dallas.....	177,274	3	.02	0		
Houston.....	154,970			3	.02	

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## SMALLPOX.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	195,901	4	21	18	0.09	0		
California:								
Los Angeles.....	666,853	7	114	766	1.15	0		
Oakland.....	240,086	5	37	40	.17	0		
San Francisco.....	539,038	4	77	29	.05	0		
Colorado:								
Denver.....	272,031			45	.17	13	0.05	28.9
Connecticut:								
Bridgeport.....	<sup>1</sup> 143,555	7	1	8	.06	1	.01	12.5
New Haven.....	172,967	7	0	4	.02	0		
Delaware:								
Wilmington.....	117,728	6	0	1	.01	0		
District of Columbia:								
Washington.....	<sup>1</sup> 437,571	6	47	67	.15	0		
Florida:								
Jacksonville.....	100,046	3	17	40	.40	0		
Georgia:								
Atlanta.....	222,963	5	88	541	2.43	0		
Illinois:								
Chicago.....	2,886,121	4	99	67	.02	1	.00	1.5
Indiana:								
Indianapolis.....	342,718	5	187	173	.50	0		
Iowa:								
Des Moines.....	140,923			70	.50	0		
Kansas:								
Kansas City.....	115,781	3	70	5	.04	0		
Kentucky:								
Louisville.....	257,671	7	31	3	.01	0		
Louisiana:								
New Orleans.....	404,575			12	.03	0		
Maryland:								
Baltimore.....	773,580	7	18	7	.01	0		
Massachusetts:								
New Bedford.....	130,072	7	0	1	.01	0		
Michigan:								
Detroit.....	995,668			256	.26	0		
Flint.....	117,968	3	23	19	.16	4	.03	21.1
Grand Rapids.....	145,947	7	39	73	.50	0		
Minnesota:								
Duluth.....	106,289	3	40	240	2.26	0		
Minneapolis.....	409,125			191	.47	0		
St. Paul.....	241,891	7	419	435	1.80	0		
Missouri:								
Kansas City.....	351,819			3	.01	0		
St. Louis.....	803,853	3	56	46	.06	0		
Nebraska:								
Omaha.....	204,382			18	.09	0		
New Jersey:								
Elizabeth.....	103,947	7	0	13	.13	0		
Jersey City.....	309,034	7	1	1	.00	0		
Trenton.....	127,390	6	1	8	.06	0		
New York:								
Albany.....	117,375	7	2	27	.23	0		
Buffalo.....	536,718	6	20	21	.04	2	.00	9.5
New York.....	5,927,625	7	18	17	.00	0		
Rochester.....	317,867	6	2	2	.01	0		
Ohio:								
Cincinnati.....	406,312	4	52	12	.03	0		
Cleveland.....	888,519	3	77	28	.03	0		
Columbus.....	261,082	5	41	78	.30	0		
Dayton.....	165,530	3	44	60	.36	0		
Toledo.....	268,338	6	149	236	.88	0		
Youngstown.....	<sup>1</sup> 132,358	5	105	96	.73	0		
Oklahoma:								
Oklahoma.....	101,150	3	122	76	.75	0		
Tulsa.....	102,018			104	1.02	3	.03	2.9
Oregon:								
Portland.....	273,621	3	84	375	1.37	0		

<sup>1</sup> Population, Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## SMALLPOX—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Pennsylvania:								
Erie.....	112,571	5	2	2	.02	0	-----	-----
Philadelphia.....	1,922,788	7	12	60	.03	0	-----	-----
Pittsburgh.....	613,442	5	11	19	.03	0	-----	-----
Reading.....	110,917	7	0	1	.01	0	-----	-----
Tennessee:								
Memphis.....	170,067	-----	-----	42	.25	0	-----	-----
Texas:								
Dallas.....	177,274	-----	-----	16	.09	0	-----	-----
Fort Worth.....	143,821	5	59	50	.35	0	-----	-----
Houston.....	154,970	7	42	7	.05	0	-----	-----
San Antonio.....	184,727	5	15	10	.05	2	0.01	20.0
Utah:								
Salt Lake City.....	126,241	4	124	52	.41	12	.10	23.1
Virginia:								
Norfolk.....	159,089	3	16	7	.04	0	-----	-----
Richmond.....	181,044	7	4	19	.10	0	-----	-----
Washington:								
Seattle.....	1315,685	4	120	243	.77	2	.01	.8
Spokane.....	104,573	4	242	434	4.15	1	.01	.2
Tacoma.....	101,731	3	37	66	.65	1	.01	1.5
Wisconsin:								
Milwaukee.....	484,595	4	113	69	.14	0	-----	-----
60 cities.....	26,539,541	-----	-----	5,429	.20	42	.00	.8

## TUBERCULOSIS (ALL FORMS).

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered, 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham.....	195,901	536	2.74	256	1.31	2.1
California:						
Los Angeles.....	666,853	3,195	4.79	1,171	1.76	2.7
Oakland.....	240,086	141	.59	138	.57	1.0
San Francisco.....	539,038	-----	-----	666	1.24	-----
Colorado:						
Denver.....	272,031	-----	-----	575	2.11	-----
Connecticut:						
Bridgeport.....	143,555	-----	-----	130	.91	-----
Hartford.....	138,036	-----	-----	91	.66	-----
New Haven.....	172,967	313	1.81	138	.80	2.3
Delaware:						
Wilmington.....	117,728	-----	-----	82	.70	-----
District of Columbia:						
Washington.....	1437,571	1,301	2.97	578	1.32	2.3
Florida:						
Jacksonville.....	100,046	-----	-----	183	1.83	-----
Georgia:						
Atlanta.....	222,963	582	2.61	235	1.05	2.5
Illinois:						
Chicago.....	2,886,121	10,105	3.50	2,335	.81	4.3
Indiana:						
Indianapolis.....	342,718	-----	-----	333	.97	-----
Iowa:						
Des Moines.....	140,923	-----	-----	78	.55	-----
Kansas:						
Kansas City.....	115,781	257	2.22	121	1.05	2.1
Kentucky:						
Louisville.....	257,671	808	3.14	275	1.07	2.9

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## TUBERCULOSIS (ALL FORMS)—Continued.

City.	Estimated population July 1, 1923	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Louisiana:						
New Orleans.....	404,575	1,011	2.50	693	1.71	1.5
Maryland:						
Baltimore.....	773,580	1,536	1.99	991	1.28	1.5
Massachusetts:						
Boston.....	770,400	2,021	2.62	791	1.03	2.6
Cambridge.....	111,444	191	1.71	122	1.09	1.6
Fall River.....	120,912	249	2.06	143	1.18	1.7
Lowell.....	115,089	192	1.67	100	.87	1.9
Lynn.....	102,683	166	1.62	65	.63	2.6
New Bedford.....	130,072	334	2.57	120	.92	2.8
Springfield.....	144,227	194	1.35	73	.51	2.7
Worcester.....	191,927	239	1.25	145	.76	1.6
Michigan:						
Detroit.....	995,668	2,380	2.39	1,003	1.01	2.4
Flint.....	117,968	198	1.68	44	.37	4.5
Grand Rapids.....	145,947	236	1.62	80	.55	2.9
Minnesota:						
Duluth.....	106,289			45	.42	
Minneapolis.....	409,125	1,293	3.16	337	.82	3.8
St. Paul.....	241,891	449	1.86	232	.96	1.9
Missouri:						
Kansas City.....	351,819	514	1.46	357	1.01	1.4
St. Louis.....	803,853			652	.81	
Nebraska:						
Omaha.....	204,382			95	.46	
New Jersey:						
Camden.....	124,157	159	1.23	87	.70	1.8
Elizabeth.....	103,947	123	1.18	50	.48	2.5
Jersey City.....	309,034	573	1.85	305	.99	1.9
Newark.....	438,699	1,129	2.57	406	.93	2.8
Paterson.....	139,579	287	2.06	129	.86	2.4
Trenton.....	127,390	209	1.64	132	1.04	1.6
New York:						
Albany.....	117,375	240	2.04	131	1.12	1.8
Buffalo.....	536,718	962	1.79	533	.99	1.8
New York.....	5,927,625	11,759	1.98	5,673	.96	2.1
Rochester.....	317,867	664	2.09	174	.55	3.8
Syracuse.....	184,511	318	1.72	100	.54	3.2
Utica.....	103,457	143	1.38	89	.86	1.6
Yonkers.....	107,529	292	2.44	86	.80	3.0
Ohio:						
Akron.....	1208,435	241	1.16	103	.49	2.3
Cincinnati.....	406,312	977	2.40	549	1.35	1.8
Cleveland.....	888,519	1,964	2.21	1,864	.97	2.3
Columbus.....	291,082			278	1.06	
Dayton.....	165,530			137	.83	
Toledo.....	268,338			315	1.17	
Youngstown.....	132,358			111	.84	
Oklahoma:						
Tulsa.....	102,018			71	.70	
Oregon:						
Portland.....	273,621	347	1.27	207	.76	1.7
Pennsylvania:						
Erie.....	112,571	254	2.26	86	.76	3.0
Philadelphia.....	1,922,788	3,674	1.91	2,122	1.10	1.7
Pittsburgh.....	613,442			562	.92	
Reading.....	110,917			54	.49	
Scranton.....	140,636	108	.77	82	.58	1.3
Rhode Island:						
Providence.....	242,378			229	.94	
Tennessee:						
Memphis.....	170,067	623	3.66	283	1.66	2.2
Nashville.....	121,128	225	1.86	184	1.52	1.2
Texas:						
Dallas.....	177,274	132	.74	112	.63	1.2
Fort Worth.....	143,821			78	.54	
Houston.....	154,970			176	1.14	
San Antonio.....	184,727			445	2.41	
Utah:						
Salt Lake City.....	126,241			79	.63	
Virginia:						
Norfolk.....	159,089	277	1.74	162	1.02	1.7
Richmond.....	181,044			241	1.33	

<sup>1</sup> Population Jan. 1, 1920.<sup>2</sup> Includes 66 deaths at Warrenville Sanatorium, outside of Cleveland.



## Reported Prevalence for the Year 1923—Continued.

## TUBERCULOSIS (ALL FORMS)—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Washington:						
Seattle.....	<sup>1</sup> 315,685	766	2.43	193	.61	4.0
Spokane.....	104,573	114	1.09	55	.53	2.1
Tacoma.....	101,731	74	.73	41	.40	1.8
Wisconsin:						
Milwaukee.....	484,595	—	—	298	.61	—
77 cities.....	30,043,609	—	—	29,476	.98	—

## TUBERCULOSIS (PULMONARY).

Alabama:						
Birmingham.....	195,901	521	2.66	214	1.09	2.4
California:						
Los Angeles.....	666,853	—	—	995	1.49	—
Oakland.....	240,086	—	—	114	.47	—
San Francisco.....	539,038	1,230	2.28	561	1.04	2.2
Colorado:						
Denver.....	272,031	—	—	519	1.91	—
Connecticut:						
Bridgeport.....	<sup>1</sup> 143,555	271	1.89	116	.81	2.3
Hartford.....	<sup>1</sup> 138,036	230	1.67	70	.51	3.3
New Haven.....	172,967	287	1.66	118	.68	2.4
Delaware:						
Wilmington.....	117,728	—	—	71	.60	—
District of Columbia:						
Washington.....	<sup>1</sup> 437,571	1,210	2.77	506	1.16	2.4
Florida:						
Jacksonville.....	100,046	—	—	166	1.66	—
Illinois:						
Chicago.....	2,886,121	—	—	2,008	.70	—
Indiana:						
Indianapolis.....	342,718	343	1.00	272	.79	1.3
Iowa:						
Des Moines.....	140,923	—	—	70	.50	—
Louisiana:						
New Orleans.....	404,575	—	—	632	1.56	—
Maryland:						
Baltimore.....	773,580	1,482	1.92	899	1.16	1.6
Massachusetts:						
Boston.....	770,400	1,683	2.18	677	.88	2.5
Cambridge.....	111,444	171	1.53	113	1.01	1.5
Fall River.....	120,912	223	1.84	122	1.01	1.8
Lowell.....	115,089	150	1.30	76	.66	2.0
Lynn.....	102,683	139	1.35	54	.53	2.6
New Bedford.....	130,072	210	1.61	95	.73	2.2
Springfield.....	144,227	167	1.16	62	.43	2.7
Worcester.....	191,927	212	1.10	127	.67	1.7
Michigan:						
Detroit.....	995,668	2,234	2.24	855	.86	2.6
Flint.....	117,968	192	1.63	34	.29	5.6
Grand Rapids.....	145,947	—	—	57	.39	—
Minnesota:						
Minneapolis.....	409,125	995	2.43	270	.66	3.7
St. Paul.....	241,891	400	1.65	191	.79	2.1
Missouri:						
St. Louis.....	803,853	1,668	2.07	564	.70	3.0
Nebraska:						
Omaha.....	204,382	122	.60	84	.41	1.5
New Jersey:						
Camden.....	124,157	—	—	76	.61	—
Newark.....	438,699	1,008	2.30	357	.81	2.8
Paterson.....	130,579	—	—	101	.72	—
Trenton.....	127,390	195	1.53	119	.93	1.6
New York:						
Albany.....	117,375	—	—	114	.97	—
Buffalo.....	536,718	843	1.57	464	.86	1.8

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## TUBERCULOSIS (PULMONARY)—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabitants.	Deaths registered 1923.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
New York—Continued.						
New York	5,927,625	11,336	1.91	4,951	.84	2.3
Rochester	317,867	—	—	146	.46	—
Syracuse	184,511	290	1.57	70	.38	4.1
Yonkers	107,520	245	2.28	78	.73	3.1
Ohio:						
Akron	<sup>1</sup> 208,435	—	—	80	.38	—
Cincinnati	406,312	879	2.16	458	1.13	1.9
Cleveland	888,519	1,850	2.08	750	.84	2.5
Columbus	261,082	300	1.15	211	.81	1.4
Dayton	165,530	—	—	115	.69	—
Toledo	268,338	—	—	266	.99	—
Youngstown	<sup>1</sup> 132,358	112	.85	92	.70	1.2
Oklahoma:						
Oklahoma	101,150	—	—	58	.57	—
Oregon:						
Portland	273,621	—	—	146	.53	—
Pennsylvania:						
Erie	112,571	—	—	73	.65	—
Philadelphia	1,922,788	—	—	1,867	.97	—
Pittsburgh	613,442	744	1.21	464	.76	—
Reading	110,917	—	—	51	.46	—
Scranton	140,636	—	—	79	.56	—
Rhode Island:						
Providence	242,378	—	—	166	.68	—
Tennessee:						
Memphis	170,067	560	3.29	233	1.37	2.4
Nashville	121,128	—	—	152	1.25	—
Texas:						
Dallas	177,274	—	—	99	.56	—
Houston	154,970	—	—	152	.98	—
San Antonio	184,727	—	—	425	2.30	—
Utah:						
Salt Lake City	126,241	—	—	63	.50	—
Virginia:						
Richmond	181,044	598	3.30	203	1.12	2.9
Washington:						
Seattle	<sup>1</sup> 315,685	—	—	138	.44	—
Spokane	104,573	99	.95	40	.38	2.5
Tacoma	101,731	—	—	22	.22	—
Wisconsin:						
Milwaukee	484,595	667	1.38	241	.50	2.8
67 cities	28,168,870	—	—	23,832	.85	—

## TYPHOID FEVER.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	195,901	5	191	136	0.69	15	0.08	11.0
California:								
Los Angeles.....	666,853	7	159	171	.26	22	.03	12.9
Oakland.....	240,086	7	60	27	.11	8	.03	29.6
San Francisco.....	539,038	7	97	73	.14	17	.03	23.3
Colorado:								
Denver.....	272,031	7	108	72	.26	4	.05	19.4
Connecticut:								
Bridgeport.....	<sup>1</sup> 143,555	7	22	17	.12	2	.01	11.8
Hartford.....	<sup>1</sup> 138,036	7	48	7	.05	1	.01	14.3
New Haven.....	172,967	7	68	74	.43	8	.05	10.8

<sup>1</sup> Population Jan. 1, 1924.

## Reported Prevalence for the Year 1923—Continued.

## TYPHOID FEVER—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Delaware:								
Wilmington	117,728	6	42	47	.40	4	.03	8.5
District of Columbia:								
Washington	1437,571	7	195	113	.26	27	.06	23.9
Florida:								
Jacksonville	100,046	4	75	52	.52	14	.14	28.9
Georgia:								
Atlanta	222,963	7	94	67	.30	39	.17	58.2
Illinois:								
Chicago	2,886,121	7	234	473	.16	57	.02	12.1
Indiana:								
Indianapolis	342,718	6	85	42	.12	9	.03	21.4
Iowa:								
Des Moines	140,923					1	.01	
Kansas:								
Kansas City	115,781	5	47	30	.26	1	.01	3.3
Kentucky:								
Louisville	257,671	7	135	138	.54	11	.04	8.0
Louisiana:								
New Orleans	404,575	7	187	170	.42	37	.09	21.8
Maryland:								
Baltimore	773,580	7	303	209	.27	32	.04	15.3
Massachusetts:								
Boston	770,400	7	141	120	.16	10	.01	8.3
Cambridge	111,444	6	16	15	.13	4	.04	26.7
Fall River	120,912	5	93	29	.24	5	.04	17.2
Lowell	115,089	7	27	10	.09	3	.03	30.0
Lynn	102,683	6	22	17	.17	3	.03	17.6
New Bedford	130,072	7	41	5	.04	1	.01	20.0
Springfield	144,227	7	22	14	.10	2	.01	14.3
Worcester	191,927	7	36	18	.09	5	.03	27.8
Michigan:								
Detroit	995,668	7	260	134	.13	42	.04	31.3
Flint	117,968	4	69	23	.19	4	.03	17.4
Grand Rapids	145,947	7	31	33	.23	2	.01	6.1
Minnesota:								
Duluth	106,289	7	34	20	.19	3	.03	15.0
Minneapolis	409,125	7	122	47	.11	6	.01	12.8
St. Paul	241,891	7	47	48	.20	11	.05	22.9
Missouri:								
Kansas City	351,819	7	88	48	.14	19	.05	39.6
St. Louis	803,853	7	209	141	.18	36	.04	25.5
Nebraska:								
Omaha	204,382	7	36	15	.07	3	.01	20.0
New Jersey:								
Camden	124,157	7	42	25	.20	5	.04	20.0
Elizabeth	103,947	7	19	22	.21	1	.01	4.5
Jersey City	309,034	7	35	28	.09	5	.02	17.9
Newark	438,699	6	92	66	.15	11	.03	16.7
Paterson	139,579	7	24	20	.14	4	.03	20.0
Trenton	127,390	7	37	41	.32	11	.09	26.8
New York:								
Albany	117,375	7	62	57	.49	4	.03	7.0
Buffalo	536,718	7	88	56	.10	22	.04	39.3
New York	5,927,625	7	969	890	.15	140	.02	15.7
Rochester	317,867	7	47	40	.13	7	.02	17.5
Syracuse	184,511	7	42	26	.14	4	.02	15.4
Utica	103,457	6	17	10	.10	0		
Yonkers	167,520	7	11	12	.11	1	.01	8.3
Ohio:								
Akron	1208,435	4	45	26	.12	4	.02	15.4
Cincinnati	406,312	7	67	62	.15	12	.03	19.4
Cleveland	888,519	7	147	114	.13	16	.02	14.0
Columbus	261,082	5	54	42	.16	11	.04	26.2
Dayton	165,530	7	44	28	.17	4	.02	14.3
Toledo	268,338	4	70	49	.18	15	.06	30.6
Youngstown	132,358	6	69	31	.23	5	.04	16.1
Oklahoma:								
Oklahoma	101,150	6	38	47	.46	12	.12	25.5
Tulsa	102,018	2	40	74	.73	17	.17	23.0

1 Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## TYPHOID FEVER—Continued.

City.	Estimated population July 1, 1923.	Estimated expectancy.		1923.				
		Number of years.	Cases.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Oregon:								
Portland.....	273,621	7	47	29	.11	8	.03	27.6
Pennsylvania:								
Erie.....	112,571	7	32	22	.20	3	.03	13.6
Philadelphia.....	1,922,788	7	394	271	.14	29	.02	10.7
Pittsburgh.....	613,442	7	147	81	.13	23	.04	28.4
Reading.....	110,917	5	40	16	.14	3	.03	18.7
Scranton.....	140,636	7	13	8	.06	2	.01	25.0
Rhode Island:								
Providence.....	242,378	5	51	18	.07	2	.01	11.1
Tennessee:								
Memphis.....	170,067	6	127	240	1.41	24	.14	10.6
Nashville.....	121,128	7	176	93	.77	12	.10	12.9
Texas:								
Dallas.....	177,274	7	93	141	.80	21	.12	14.9
Fort Worth.....	143,821	6	38	37	.26	8	.06	21.6
Houston.....	154,970	6	60	36	.23	12	.08	33.3
San Antonio.....	184,727	6	63	50	.27	6	.03	12.0
Utah:								
Salt Lake City.....	126,241	5	37	31	.25	5	.04	16.1
Virginia:								
Norfolk.....	159,089	5	37	40	.25	0		
Richmond.....	181,044	6	84	68	.38	11	.06	16.2
Washington:								
Seattle.....	1315,685	7	56	44	.14	8	.03	18.2
Spokane.....	104,271	7	34	25	.24	7	.07	28.0
Tacoma.....	101,731	7	19	37	.36	5	.05	13.5
Wisconsin:								
Milwaukee.....	484,595	5	49	26	.05	4	.01	15.4
77 cities <sup>1</sup> .....	30,003,836		7,100	5,734	.19	981	.03	17.1

## TYPHUS FEVER.

City.	Cases reported, 1923.	Deaths registered, 1923.	City.	Cases reported, 1923.	Deaths registered, 1923.
Alabama:			Maryland:		
Birmingham.....	2	0	Baltimore.....	2	0
California:			Massachusetts:		
Los Angeles.....	15	0	Boston.....	1	0
Connecticut:			Missouri:		
New Haven.....	1	0	St. Louis.....	1	0
District of Columbia:			New York:		
Washington.....	1	0	New York.....	8	0
Georgia:					
Atlanta.....	4	0			

<sup>1</sup> Population Jan. 1, 1920.<sup>1</sup> Des Moines, Iowa, not included.

## Reported Prevalence for the Year 1923—Continued.

## WHOOPIING COUGH.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:							
Birmingham.....	195,901	83	301	1.54	37	0.19	8.1
California:							
Los Angeles.....	666,853	642	445	.67	23	.03	19.3
Oakland.....	240,086	86	169	.70	11	.05	15.4
San Francisco.....	539,038	506	482	.89	28	.05	17.2
Colorado:							
Denver.....	272,031	603	882	3.24	32	.12	27.6
Connecticut:							
Bridgeport.....	<sup>1</sup> 143,555	48	150	1.04	16	.11	9.4
Hartford.....	<sup>1</sup> 138,036	367	288	2.09	10	.07	28.8
New Haven.....	172,967	360	251	1.45	8	.05	31.4
Delaware:							
Wilmington.....	117,728	34	131	1.11	8	.07	16.4
District of Columbia:							
Washington.....	<sup>1</sup> 437,571	545	1,391	3.18	34	.08	40.9
Florida:							
Jacksonville.....	100,046	—	225	2.25	4	.04	56.2
Georgia:							
Atlanta.....	222,963	35	75	.34	33	.15	2.3
Illinois:							
Chicago.....	2,886,121	3,659	3,426	1.19	137	.05	25.0
Indiana:							
Indianapolis.....	342,718	298	1,431	4.18	20	.06	71.5
Iowa:							
Des Moines.....	140,923	—	—	—	17	.12	—
Kansas:							
Kansas City.....	115,781	101	447	3.86	4	.03	111.7
Kentucky:							
Louisville.....	257,671	51	466	1.81	2	.01	233.0
Louisiana:							
New Orleans.....	404,575	133	314	.78	52	.13	6.0
Maryland:							
Baltimore.....	773,580	1,453	3,090	3.99	100	.13	30.9
Massachusetts:							
Boston.....	770,400	1,567	2,034	2.64	109	.14	18.7
Cambridge.....	111,444	402	1,050	9.42	16	.14	65.6
Fall River.....	120,912	88	155	1.28	14	.12	11.1
Lowell.....	115,089	32	197	1.71	12	.10	16.4
Lynn.....	102,683	80	227	2.21	15	.15	15.1
New Bedford.....	130,072	58	191	1.47	2	.02	95.5
Springfield.....	144,227	169	260	1.80	7	.05	37.1
Worcester.....	191,927	276	199	1.04	6	.03	33.2
Michigan:							
Detroit.....	995,668	2,469	2,745	2.76	82	.08	33.5
Flint.....	117,968	269	356	3.02	2	.02	178.0
Grand Rapids.....	145,947	458	527	3.61	8	.05	65.9
Minnesota:							
Duluth.....	106,269	186	240	2.26	1	.01	240.0
Minneapolis.....	400,125	125	120	.29	26	.06	4.6
St. Paul.....	241,891	664	769	3.18	15	.06	51.3
Missouri:							
Kansas City.....	351,819	79	651	1.85	23	.07	28.3
St. Louis.....	803,853	102	2,644	3.29	108	.13	24.5
Nebraska:							
Omaha.....	204,382	32	158	.77	13	.06	12.2
New Jersey:							
Camden.....	124,157	6	65	.52	10	.08	6.5
Elizabeth.....	103,947	301	251	2.41	13	.13	19.3
Jersey City.....	309,034	116	71	.23	26	.08	2.7
Newark.....	438,690	2,383	1,124	2.56	19	.04	59.2
Paterson.....	139,579	326	412	2.95	5	.04	82.4
Trenton.....	127,390	156	14	.11	4	.03	3.5
New York:							
Albany.....	117,375	327	229	1.95	7	.06	32.7
Buffalo.....	536,718	548	1,098	2.05	45	.08	24.4
New York.....	5,927,625	4,799	4,484	.76	202	.03	22.2
Rochester.....	317,867	290	404	1.27	22	.07	18.4
Syracuse.....	184,511	393	527	2.86	13	.07	40.5
Utica.....	103,457	386	58	.56	0	—	—
Yonkers.....	107,520	118	72	.67	2	.02	36.0

<sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## WHOOPIING COUGH—Continued.

City.	Estimated population July 1, 1923.	Cases reported, 1922.	1923.				
			Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Ohio:							
Akron.....	<sup>1</sup> 208,435	1,078	490	2.35	8	.04	61.2
Cincinnati.....	406,312	290	728	1.79	18	.04	40.4
Cleveland.....	888,519	2,436	1,629	1.83	34	.04	47.9
Columbus.....	261,082	119	318	1.22	37	.14	8.6
Dayton.....	165,530	97	71	.43	24	.14	3.0
Toledo.....	268,338	533	498	1.86	8	.03	62.2
Youngstown.....	<sup>1</sup> 132,358	428	230	1.74	11	.08	20.9
Oklahoma:							
Oklahoma.....	101,150	27	63	.62	0		
Tulsa.....	102,018	15	35	.34	12	.12	2.9
Oregon:							
Portland.....	273,621	96	236	.86	12	.04	19.7
Pennsylvania:							
Erie.....	112,571	422	582	5.17	14	.12	41.6
Philadelphia.....	1,922,788	930	2,457	1.28	103	.05	23.9
Pittsburgh.....	613,442	2,588	1,253	2.04	42	.07	29.8
Reading.....	110,917	140	321	2.80	3	.03	107.0
Scranton.....	140,636	64	17	.12	2	.01	8.5
Rhode Island:							
Providence.....	242,378	199	186	.77	37	.15	5.0
Tennessee:							
Memphis.....	170,067	393	389	2.29	7	.04	55.6
Nashville.....	121,128	38	131	1.08	16	.13	8.2
Texas:							
Dallas.....	177,274	455	852	4.81	16	.09	53.2
Fort Worth.....	143,821		6	.04	4	.03	1.5
Houston.....	154,970		10	.06	4	.03	2.5
San Antonio.....	184,727		1	.01	0		
Utah:							
Salt Lake City.....	126,241	347	1,029	8.15	5	.04	205.8
Virginia:							
Richmond.....	181,044	82	315	1.74	67	.37	4.7
Washington:							
Seattle.....	<sup>1</sup> 315,685	711	525	1.66	13	.04	40.4
Spokane.....	104,573	46	423	4.05	4	.04	105.7
Tacoma.....	101,731	165	250	2.46	3	.03	83.3
Wisconsin:							
Milwaukee.....	484,595	3,256	1,357	2.80	9	.02	150.8
76 cities <sup>2</sup> .....	29,844,747.		49,698	1.67	1,899	.06	26.2

<sup>1</sup> Population Jan. 1, 1920.<sup>2</sup> Des Moines, Iowa, not included.



## DEATHS DURING WEEK ENDED JUNE 28, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended June 28, 1924, and corresponding week of 1923. (From the Weekly Health Index, July 1, 1924, issued by the Bureau of the Census, Department of Commerce.)

	Week ended June 28, 1924.	Corresponding week, 1923.
Policies in force.....	56, 466, 115	52, 668, 033
Number of death claims.....	10, 090	9, 484
Death claims per 1,000 policies in force, annual rate..	9. 3	9. 4

Deaths from all causes in certain large cities of the United States during the week ended June 28, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, July 1, 1924, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended June 28, 1924.		Annual death rate per 1,000 corresponding week, 1923.	Deaths under 1 year.		Infant mortality rate, week ended June 28, 1924. <sup>3</sup>
	Total deaths.	Death rate. <sup>1</sup>		Week ended June 28, 1924.	Corresponding week, 1923.	
Total (63 cities).....	5,945	11.6	<sup>2</sup> 11.9	761	<sup>2</sup> 713	.....
Akron.....	24	.....	.....	5	1	53
Albany <sup>4</sup> .....	37	16.3	11.1	3	4	68
Atlanta.....	69	15.8	14.7	15	11	.....
Baltimore <sup>4</sup> .....	212	14.1	13.8	22	25	65
Birmingham.....	80	20.8	17.6	13	6	.....
Boston.....	201	15.5	13.6	27	22	75
Bridgeport.....	23	.....	8.0	6	3	96
Buffalo.....	121	11.6	10.6	24	19	101
Cambridge.....	29	13.5	10.8	2	0	35
Camden.....	28	11.6	.....	6	1	98
Chicago <sup>4</sup> .....	515	9.1	11.3	92	74	86
Cincinnati.....	109	13.9	16.2	10	9	63
Cleveland.....	163	9.3	10.4	24	25	61
Columbus.....	68	13.3	13.7	4	7	38
Dallas.....	46	12.8	12.3	11	11	.....
Denver.....	78	.....	.....	6	10	.....
Des Moines.....	22	7.9	8.1	5	6	.....
Detroit.....	194	.....	.....	30	45	56
Duluth.....	21	10.1	6.4	2	4	43
Erie.....	14	.....	.....	1	2	21
Fall River.....	31	13.4	7.8	10	1	141
Flint.....	22	.....	.....	7	4	121
Fort Worth.....	25	8.8	4.4	4	1	.....
Grand Rapids.....	16	5.6	9.6	4	6	62
Houston.....	39	.....	.....	3	7	.....
Indianapolis.....	88	13.1	11.9	2	4	15
Jacksonville, Fla.....	41	20.9	16.7	5	4	.....
Jersey City.....	66	11.0	12.5	7	14	50
Kansas City, Kans.....	31	13.7	6.8	2	2	39
Kansas City, Mo.....	69	10.0	14.1	8	11	.....
Los Angeles.....	221	.....	.....	32	18	100
Louisville.....	65	13.1	14.6	3	10	28
Lowell.....	29	13.1	14.5	3	9	54
Lynn.....	21	10.6	6.1	3	0	76
Memphis.....	71	21.5	20.5	12	4	.....
Milwaukee.....	78	8.3	9.4	14	13	66
Minneapolis.....	67	8.4	9.0	6	15	32
Nashville <sup>4</sup> .....	56	23.7	23.0	4	4	.....
New Bedford.....	25	9.8	13.2	2	5	31
New Haven.....	33	9.8	9.6	3	7	40
New Orleans.....	153	19.5	16.1	13	17	.....

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1923. Cities left blank are not in the registration area for births.

<sup>3</sup> Data for 61 cities.

<sup>4</sup> Deaths for week ended Friday, June 27, 1924.

*Deaths from all causes in certain large cities of the United States during the week ended June 28, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923—Continued.*

City.	Week ended June 28, 1924.		Annual death rate per 1,000 corresponding week, 1923.	Deaths under 1 year.		Infant mortality rate, week ended June 28, 1924.
	Total deaths.	Death rate.		Week ended June 28, 1924.	Corresponding week, 1923.	
New York.....	1,308	11.3	10.7	159	146	64
Bronx borough.....	155	9.3	9.1	14	17	49
Brooklyn borough.....	425	10.1	9.7	46	43	49
Manhattan borough.....	585	13.5	12.0	86	67	87
Queens borough.....	114	10.7	10.6	12	15	60
Richmond borough.....	29	11.6	14.7	1	4	18
* Newark, N. J.....	86	10.1	11.8	13	11	61
Norfolk.....	31	9.8	15.7	3	10	54
Oakland.....	42	8.9	10.4	5	6	63
Oklahoma City.....	29	14.5		4		
Omaha.....	39	9.8	13.0	5	6	54
Paterson.....	27	10.0	9.0	3	6	51
Philadelphia.....	422	11.3	13.4	45	47	57
Pittsburgh.....	160	13.3	11.2	21	17	71
Portland, Oreg.....	61	11.4	10.3	4	5	41
Providence.....	64	13.7	10.8	12	6	98
Richmond.....	68	19.3	17.9	13	10	158
Rochester.....	67	10.7		9		71
St. Louis.....	178	11.4	14.3	17	15	
St. Paul.....	46	9.8	11.6	3	6	26
Salt Lake City <sup>4</sup> .....	33	13.4	9.5	3	2	60
San Antonio.....	49	13.3	14.1	18	11	
San Francisco.....	109	10.4	13.4	7	8	42
Schenectady.....	16	8.3	10.0	4	3	119
Seattle.....	56			4	3	39
Somerville.....	18	9.3	8.4	3	1	82
Spokane.....	27			2	3	44
Springfield, Mass.....	30	10.5	6.1	7	4	118
Syracuse.....	38	10.5	13.6	4	8	50
Tacoma.....	23	11.6	11.3	1	1	24
Toledo.....	70	13.2	11.2	6	5	56
Trenton.....	38	15.3	22.1	4	5	67
Utica.....	19	9.4	12.1	2	1	44
Washington, D. C.....	125	13.4	11.9	18	16	104
Waterbury.....	19			5	3	116
Wilmington, Del.....	20	8.7	11.1	0	2	0
Yonkers.....	22	10.5	11.2	2	1	44
Youngstown.....	21	7.1	9.7	1	3	14

<sup>4</sup> Deaths for week ended Friday, June 27, 1924.

# PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

## UNITED STATES.

### CURRENT WEEKLY STATE REPORTS.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

#### Reports for Week Ended July 5, 1924.

ALABAMA.		CALIFORNIA.	
	Cases.		Cases.
Cerebrospinal meningitis.....	2	Diphtheria.....	135
Chicken pox.....	14	Lethargic encephalitis:	
Diphtheria.....	10	Napa County.....	1
Dysentery.....	112	Orange County.....	1
Influenza (reported as "devil's grip").....	14	Measles.....	115
Malaria.....	102	Poliomyelitis:	
Measles.....	35	Los Angeles.....	1
Mumps.....	21	Orange County.....	1
Pellagra.....	17	Pittsburg.....	2
Pneumonia.....	5	Scarlet fever.....	53
Poliomyelitis.....	2	Smallpox:	
Scarlet fever.....	2	Hermosa Beach.....	9
Smallpox.....	27	Los Angeles.....	28
Tuberculosis.....	42	Los Angeles County.....	12
Typhoid fever.....	24	Scattering.....	36
Whooping cough.....	33	Typhoid fever.....	26
ARIZONA.		COLORADO.	
		(Exclusive of Denver.)	
Measles.....	4	Chicken pox.....	14
Mumps.....	3	Diphtheria.....	15
Scarlet fever.....	4	Measles.....	19
Smallpox.....	3	Mumps.....	7
Tuberculosis.....	16	Pneumonia.....	3
Typhoid fever.....	8	Scarlet fever.....	10
Whooping cough.....	3	Tuberculosis.....	48
ARKANSAS.		Typhoid fever.....	5
		Whooping cough.....	24
Chicken pox.....	2	CONNECTICUT.	
Diphtheria.....	1		
Influenza.....	13	Cerebrospinal meningitis.....	2
Malaria.....	123	Chicken pox.....	28
Measles.....	39	Diphtheria.....	19
Mumps.....	9	German measles.....	4
Pellagra.....	7	Influenza.....	2
Scarlet fever.....	1	Lethargic encephalitis.....	1
Smallpox.....	4	Malaria.....	4
Tuberculosis.....	24		
Typhoid fever.....	9		
Whooping cough.....	21		

(1700)

CONNECTICUT—continued.		INDIANA.	
	Cases.		Cases.
Measles.....	102	Chicken pox.....	11
Mumps.....	90	Diphtheria.....	25
Pneumonia (lobar).....	11	Influenza.....	5
Scarlet fever.....	26	Measles.....	44
Smallpox.....	15	Mumps.....	4
Trachoma.....	1	Pneumonia.....	4
Tuberculosis (all forms).....	26	Scarlet fever.....	44
Typhoid fever.....	1	Smallpox.....	31
Whooping cough.....	25	Tuberculosis.....	23
		Typhoid fever.....	7
		Whooping cough.....	11
DELAWARE.		IOWA.	
Chicken pox.....	3	Diphtheria.....	7
Diphtheria.....	1	Scarlet fever.....	11
Measles.....	4	Smallpox.....	3
Mumps.....	1		
Scarlet fever.....	1	KANSAS.	
Tuberculosis.....	1	Chicken pox.....	7
Whooping cough.....	3	Diphtheria.....	9
		German measles.....	2
FLORIDA.		Influenza.....	1
Diphtheria.....	3	Measles.....	74
Influenza.....	6	Mumps.....	69
Malaria.....	37	Pneumonia.....	16
Pneumonia.....	1	Scarlet fever.....	21
Smallpox.....	2	Smallpox.....	8
Typhoid fever.....	8	Trachoma.....	1
		Tuberculosis.....	33
GEORGIA.		Typhoid fever.....	6
Diphtheria.....	6	Whooping cough.....	64
Dysentery (amebic).....	2		
Dysentery (bacillary).....	20	LOUISIANA.	
German measles.....	1	Anthrax.....	1
Hookworm disease.....	17	Diphtheria.....	6
Influenza.....	3	Hookworm disease.....	12
Malaria.....	14	Influenza.....	12
Pellagra.....	2	Malaria.....	26
Pneumonia.....	5	Pneumonia.....	22
Polio-myelitis.....	2	Scarlet fever.....	6
Scarlet fever.....	20	Smallpox.....	1
Smallpox.....	12	Tuberculosis.....	30
Tuberculosis (pulmonary).....	8	Typhoid fever.....	25
Typhoid fever.....	19	Whooping cough.....	4
ILLINOIS.		MAINE.	
Cerebrospinal meningitis:		Chicken pox.....	30
Rock Island County.....	1	Diphtheria.....	9
Diphtheria:		German measles.....	19
Cook County.....	62	Influenza.....	5
Scattering.....	25	Measles.....	28
Influenza.....	8	Mumps.....	34
Lethargic encephalitis:		Pneumonia.....	7
Cook County.....	2	Scarlet fever.....	8
Measles.....	337	Tuberculosis.....	3
Pneumonia.....	86	Typhoid fever.....	9
Scarlet fever:		Whooping cough.....	16
Cook County.....	66		
Scattering.....	28	MARYLAND. <sup>1</sup>	
Smallpox:		Cerebrospinal meningitis.....	1
Cook County.....	10	Chicken pox.....	32
Lake County.....	11	Diphtheria.....	12
Pike County.....	22	Dysentery.....	2
Scattering.....	4	German measles.....	2
Tuberculosis.....	276	Influenza.....	2
Typhoid fever.....	11	Lethargic encephalitis.....	5
Whooping cough.....	141		

<sup>1</sup> Week ended Friday.

## MARYLAND—continued.

	Cases.
Measles.....	97
Mumps.....	18
Pneumonia (all forms).....	25
Poliomyelitis.....	1
Scarlet fever.....	15
Smallpox.....	3
Tetanus.....	1
Tuberculosis.....	86
Typhoid fever.....	10
Whooping cough.....	42

## MASSACHUSETTS.

Cerebrospinal meningitis.....	2
Chicken pox.....	87
Conjunctivitis (suppurative).....	19
Diphtheria.....	109
Dysentery.....	1
German measles.....	22
Influenza.....	2
Malaria.....	1
Measles.....	311
Mumps.....	78
Ophthalmia neonatorum.....	9
Pneumonia (lobar).....	44
Scarlet fever.....	102
Septic sore throat.....	4
Tetanus.....	1
Trichinosis.....	1
Tuberculosis (all forms).....	109
Typhoid fever.....	9
Whooping cough.....	73

## MICHIGAN.

Diphtheria.....	96
Measles.....	401
Pneumonia.....	50
Scarlet fever.....	159
Smallpox.....	90
Tuberculosis.....	18
Typhoid fever.....	8
Whooping cough.....	148

## MINNESOTA.

Cerebrospinal meningitis.....	1
Chicken pox.....	38
Diphtheria.....	45
Measles.....	29
Pneumonia.....	4
Scarlet fever.....	75
Smallpox.....	33
Tuberculosis.....	62
Typhoid fever.....	4
Whooping cough.....	19

## MISSISSIPPI.

Diphtheria.....	3
Scarlet fever.....	3
Smallpox.....	2
Typhoid fever.....	25

## MISSOURI.

Chicken pox.....	9
Diphtheria.....	20
Epidemic sore throat.....	3
Measles.....	44
Mumps.....	36

## MISSOURI—continued.

	Cases.
Pneumonia.....	4
Scarlet fever.....	43
Smallpox.....	8
Tetanus.....	1
Trachoma.....	1
Tuberculosis.....	45
Typhoid fever.....	11
Whooping cough.....	20

## MONTANA.

Diphtheria.....	3
Rocky Mountain spotted fever:	
Ekalaka.....	1
Garnet.....	1
Scarlet fever.....	15
Smallpox.....	17
Typhoid fever.....	6

## NEW JERSEY.

Cerebrospinal meningitis.....	1
Chicken pox.....	84
Diphtheria.....	38
Malaria.....	1
Measles.....	274
Paratyphoid fever.....	1
Pneumonia.....	41
Scarlet fever.....	62
Smallpox.....	12
Typhoid fever.....	6
Whooping cough.....	82

## NEW MEXICO.

Chicken pox.....	1
Diphtheria.....	5
Malaria.....	1
Measles.....	17
Mumps.....	2
Pneumonia.....	5
Scarlet fever.....	2
Tuberculosis.....	39
Typhoid fever.....	5

## NEW YORK.

## (Exclusive of New York City.)

Diphtheria.....	84
Influenza.....	1
Lethargic encephalitis.....	6
Measles.....	744
Pneumonia.....	118
Poliomyelitis.....	7
Scarlet fever.....	134
Smallpox.....	4
Typhoid fever.....	21
Whooping cough.....	230

## NORTH CAROLINA.

Chicken pox.....	19
Diphtheria.....	24
German measles.....	1
Measles.....	100
Poliomyelitis.....	1
Scarlet fever.....	16
Septic sore throat.....	1
Smallpox.....	37
Typhoid fever.....	54
Whooping cough.....	327

NORTH DAKOTA.		WASHINGTON.	
	Cases.		Cases.
Measles.....	4	Chicken pox.....	36
Polioimyelitis.....	1	Diphtheria.....	32
Scarlet fever.....	15	Measles.....	16
Smallpox.....	22	Mumps.....	17
Trachoma.....	1	Pneumonia.....	2
Tuberculosis.....	3	Scarlet fever.....	32
		Smallpox.....	27
OREGON.		Tetanus.....	1
Chicken pox.....	19	Tuberculosis.....	64
Diphtheria:		Typhoid fever.....	5
Portland.....	8	Whooping cough.....	5
Scattering.....	4		
Measles.....	48	WEST VIRGINIA.	
Mumps.....	3	Diphtheria.....	7
Pneumonia.....	14	Scarlet fever.....	10
Scarlet fever.....	10	Smallpox.....	2
Smallpox.....	14	Typhoid fever.....	11
Tuberculosis.....	4		
Typhoid fever.....	2	WISCONSIN.	
Whooping cough.....	4	Milwaukee:	
		Cerebrospinal meningitis.....	1
SOUTH DAKOTA.		Chicken pox.....	61
Chicken pox.....	1	Diphtheria.....	7
Measles.....	23	German measles.....	2
Mumps.....	13	Measles.....	13
Scarlet fever.....	40	Pneumonia.....	3
Smallpox.....	1	Scarlet fever.....	11
Typhoid fever.....	1	Smallpox.....	2
Whooping cough.....	21	Tuberculosis.....	17
		Whooping cough.....	17
TEXAS.		Scattering:	
Cerebrospinal meningitis.....	1	Chicken pox.....	119
Chicken pox.....	2	Diphtheria.....	23
Diphtheria.....	2	German measles.....	14
Dysentery.....	12	Influenza.....	10
Influenza.....	2	Measles.....	141
Measles.....	37	Pneumonia.....	9
Mumps.....	7	Polioimyelitis.....	1
Pellagra.....	2	Scarlet fever.....	52
Pneumonia.....	2	Smallpox.....	32
Scarlet fever.....	19	Tuberculosis.....	32
Smallpox.....	19	Typhoid fever.....	5
Trachoma.....	5	Whooping cough.....	62
Tuberculosis.....	68		
Typhoid fever.....	5	WYOMING.	
Whooping cough.....	57	Cerebrospinal meningitis.....	1
		Chicken pox.....	7
VERMONT.		Diphtheria.....	1
Chicken pox.....	13	Measles.....	5
Diphtheria.....	1	Mumps.....	6
Measles.....	58	Smallpox.....	1
Mumps.....	7	Tuberculosis.....	1
Scarlet fever.....	7	Typhoid fever.....	1
Smallpox.....	1	Whooping cough.....	2
Whooping cough.....	1		

## Reports for week ended June 28, 1924.

DISTRICT OF COLUMBIA.		NEBRASKA.	
	Cases.		Cases.
Chicken pox.....	19	Chicken pox.....	10
Diphtheria.....	3	Diphtheria.....	4
Measles.....	8	Measles.....	2
Polioimyelitis.....	1	Scarlet fever.....	6
Scarlet fever.....	11	Smallpox.....	7
Tuberculosis.....	34	Tuberculosis.....	1
Typhoid fever.....	2	Whooping cough.....	10
Whooping cough.....	6		

1 Deaths.



## SUMMARY OF MONTHLY REPORTS FROM STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State.	Cerebro-spinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Polio-myelitis.	Scarlet fever.	Small-pox.	Typhoid fever.
<i>May, 1924</i>										
Arizona.....		17			242			58	21	16
Hawaii.....	2	20	20		32			4		17
Minnesota.....	8	327	2		574			810	108	41
Montana.....	2	35	10		154			107	117	9

Number of Cases of Certain Communicable Diseases Reported for the Month of April, 1924, by State Health Officers.

State.	Chicken pox.	Diphtheria.	Measles.	Mumps.	Scarlet fever.	Small-pox.	Tuberculosis.	Typhoid fever.	Whooping cough.
Alabama.....	241	35	1,705	373	31	274	<sup>1</sup> 150	41	237
Arizona.....	31	23	417	14	42	3	155	3	4
Arkansas.....	192	12	1,295	155	15	48	<sup>1</sup> 77	22	179
California.....	2,113	1,089	6,641	343	1,198	1,746	1,129	159	239
Colorado.....	188	213	1,705	327	162	3	175	3	100
Connecticut.....	231	154	632	611	719	10	152	3	107
Delaware.....	21	15	33	16	63		14		19
District of Columbia.....	243	35	90		165	15	102	4	32
Florida.....	109	41	405	90	37	25	131	40	66
Georgia.....	115	42	329	163	36	363	<sup>1</sup> 69	12	90
Idaho.....		13			28			2	
Illinois.....	1,464	577	3,606	1,953	1,148	111	1,482	58	550
Indiana.....	335	214	2,494		432	604	113	41	274
Iowa.....	56	53	259	229	207	71		( <sup>2</sup> )	23
Kansas.....	307	116	3,308	1,294	284	239	291	17	351
Kentucky <sup>3</sup> .....									
Louisiana.....	39	104	753	5	65	55	<sup>1</sup> 148	43	22
Maine.....		45			129	9		12	
Maryland.....	499	137	1,368	171	619	18	224	30	172
Massachusetts.....	817	675	4,196	1,671	1,723		638	31	394
Michigan.....	960	473	3,275	1,630	1,416	680	916	52	342
Minnesota.....	663	199	844		1,009	269	146	39	168
Mississippi.....	787	66	4,417	1,139	27	121	317	59	1,262
Missouri.....	212	192	1,567	548	508	65	153	11	247
Montana.....	50	37	552	7	109	88	63	6	14
Nebraska <sup>3</sup> .....									
Nevada <sup>3</sup> .....									
New Hampshire <sup>4</sup> .....									
New Jersey.....	908	391	3,410		741	20	439	24	573
New Mexico.....	101	51	1,079	62	30	2	46	11	10
New York.....	2,299	1,426	14,352	2,682	2,936	13	2,063	110	2,020
North Carolina.....	817	99	6,294		223	661		25	1,380
North Dakota.....	29	32	504	15	131	63	9	3	68
Ohio.....	1,324	431	3,415	2,488	1,329	661	863	66	1,151
Oklahoma <sup>3</sup> .....									
Oregon.....	98	109	437	28	103	107	63	5	50
Pennsylvania.....	2,219	895	2,892	3,501	1,678	18		55	1,293
Rhode Island.....	57	70	75	74	509		39	3	9
South Carolina.....	113	134	331	164	8	73	11	10	155
South Dakota.....	64	49	906	7	250	10	16	2	27
Tennessee <sup>3</sup> .....									
Texas <sup>3</sup> .....									
Utah <sup>4</sup> .....									
Vermont.....	79	12	335	72	54	4	<sup>1</sup> 21	2	158
Virginia.....	896	96	2,648		138	27	<sup>1</sup> 270	46	2,065
Washington.....	351	121	822	112	214	253	157	21	75
West Virginia.....	170	64	394		95	47	74	25	
Wisconsin.....	838	179	1,559	87	1,005	135	160	23	574
Wyoming.....	57	10	451	49	10	1		2	8

<sup>1</sup> Pulmonary.<sup>2</sup> Reports not required by law.<sup>3</sup> Reports received weekly.<sup>4</sup> Reports received annually.<sup>5</sup> Reports not received at time of going to press.

## Case Rates per 1,000 Population (Annual Basis) for the Month of April, 1924.

State.	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Typhoid fever.	Whoop- ing cough.
Alabama	1.20	0.17	8.51	1.86	.15	1.37	10.75	0.20	1.18
Arizona	.96	.71	12.90	.43	1.30	.09	4.80	.09	.12
Arkansas	1.28	.08	8.61	1.03	.10	.32	1.51	.15	1.19
California	6.59	3.40	20.70	1.07	3.73	5.44	3.52	.50	.75
Colorado	2.28	2.59	20.70	3.97	1.97	.04	2.12	.04	1.21
Connecticut	1.87	1.25	5.13	4.96	5.83	.08	1.23	.02	.87
Delaware	1.10	.79	1.73	.84	3.30		.73		1.00
District of Columbia	6.78	.98	2.51		4.60	.42	2.84	.11	.89
Florida	1.24	.47	4.62	1.03	.42	.29	1.50	.46	.75
Georgia	.46	.17	1.33	.66	.15	1.58	1.28	.05	.36
Idaho		.33			.71			.05	
Illinois	2.60	1.02	6.40	3.46	2.04	.20	2.63	.10	.98
Indiana	1.35	.86	10.02		1.74	2.43	1.45	.16	1.10
Iowa	.27	.26	1.47		1.12	.35		(9)	.11
Kansas	2.07	.78	22.35	8.74	1.92	1.61	1.07	.11	2.37
Kentucky <sup>1</sup>									
Louisiana	.26	.68	4.93	.03	.43	.36	1.97	.28	.14
Maine		.70			2.02	.14		.19	
Maryland	4.00	1.10	10.97	1.37	4.96	.14	1.89	.24	1.38
Massachusetts	2.44	2.02	12.55	5.00	5.16		1.91	.09	1.18
Michigan	2.88	1.42	9.83	4.89	4.25	2.04	2.75	.16	1.03
Minnesota	3.20	.96	4.07		4.86	1.30	.70	.19	.81
Mississippi	5.36	.45	30.09	7.76	.18	.82	2.16	.40	8.60
Missouri	.75	.68	5.53	1.93	1.79	.23	.54	.04	.87
Montana	.97	.72	10.71	.14	2.11	1.71	1.22	.12	.27
Nebraska <sup>1</sup>									
Nevada <sup>1</sup>									
New Hampshire <sup>1</sup>									
New Jersey	3.22	1.39	12.08		2.63	.07	1.56	.09	2.03
New Mexico	3.28	1.66	35.04	2.01	.97	.06	1.49	.36	.32
New York	2.56	1.59	15.96	2.98	3.26	.01	2.29	.12	2.25
North Carolina	3.66	.44	28.20		1.60	2.96		.11	6.18
North Dakota	.62	.57	9.05	.27	2.35	1.13	.16	.05	1.22
Ohio	2.60	.85	6.70	4.88	2.61	1.30	1.69	.13	2.26
Oklahoma <sup>1</sup>									
Oregon	1.43	1.59	6.39	.41	1.51	1.56	.92	.07	.73
Pennsylvania	2.94	1.32	3.83	4.64	2.22	.02		.07	1.71
Rhode Island	1.10	1.35	1.45	1.43	9.81		.75	.06	.17
South Carolina	.78	.93	2.29	1.14	.06	.51	.08	.07	1.07
South Dakota	1.18	.90	16.72	.13	4.61	.18	.30	.04	.50
Tennessee <sup>1</sup>									
Texas <sup>1</sup>									
Utah <sup>1</sup>									
Vermont	2.73	.42	11.60	2.49	1.87	.14	.73	.07	5.47
Virginia	4.51	.48	13.33		.69	.14	1.36	.23	10.39
Washington	2.94	1.01	6.89	.94	1.79	2.12	1.32	.18	.63
West Virginia	1.32	.50	3.05		.74	.36	.57	.19	
Wisconsin	3.69	.79	6.87	.38	4.43	.59	.70	.10	2.53
Wyoming	3.21	.56	25.37	2.76	.56	.06		.11	.45

<sup>1</sup> Pulmonary.<sup>2</sup> Reports not required by law.<sup>3</sup> Reports received weekly.<sup>4</sup> Reports received annually.<sup>5</sup> Reports not received at time of going to press.

## RECIPROCAL NOTIFICATION, MAY, 1924.

Cases of communicable diseases referred during May, 1924, to other State health departments by departments of health of certain States.

Referred by—	Measles.	Scarlet fever.	Smallpox.	Tubercu- losis.	Typhoid fever.
Illinois			2	21	
New Jersey	1	1			2
Minnesota				40	9
New York		4	3		2

**PLAGUE-INFECTED GROUND SQUIRRELS IN SAN LUIS OBISPO COUNTY, CALIF.**

Under date of June 24, 1924, five more<sup>1</sup> plague-infected ground squirrels were reported found in San Luis Obispo County, Calif., making a total of eight infected squirrels found in June to that date. Four of these were in a batch of 25 squirrels that had been shot. All of the squirrels were from a ranch about 10 miles northeast of San Luis Obispo.

**OUTBREAK OF SMALLPOX AT PITTSBURGH, PA.**

An outbreak of smallpox was reported from Pittsburgh, Pa., July 4, 1924. Thirty-two cases with six deaths had been recently reported in that city.

**TYPHUS FEVER, RIO GRANDE, TEX., AND VICINITY.**

Under date of July 3, 1924, six cases of typhus fever were reported in Rio Grande, Tex., and vicinity.

**GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.**

*Diphtheria.*—For the week ended June 21, 1924, 35 States reported 1,490 cases of diphtheria. For the week ended June 23, 1923, the same States reported 1,114 cases. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 28,500,000, reported 871 cases of diphtheria for the week ended June 21, 1924. Last year for the corresponding week they reported 732 cases. The estimated expectancy for these cities was 831 cases. The estimated expectancy was based on the experience of the last nine years, excluding epidemics.

*Measles.*—Thirty States reported 6,075 cases of measles for the week this year and 12,154 cases for the week last year. One hundred and one cities reported 2,309 cases of measles for the week this year and 3,643 cases last year.

*Scarlet fever.*—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,107 cases; last year, 1,731 cases. One hundred and one cities—this year, 969 cases; last year, 866 cases; estimated expectancy, 528 cases.

*Smallpox.*—The reports of smallpox show that many communities suffer needlessly as the result of failure to vaccinate and revaccinate. Thirty-five States reported 895 cases of smallpox for the week ended June 21, 1924. For the corresponding week of last year they reported 371 cases of this disease. One hundred and one cities reported smallpox for the week as follows: 1924, 345 cases; 1923, 83 cases; estimated expectancy, 126 cases.

<sup>1</sup> Three infected squirrels were reported under date of June 20, 1924. (Public Health Reports for July 4, 1924, p. 1641.)

**Typhoid fever.**—Three hundred and eighty-four cases of typhoid fever were reported for the week ended June 21, 1924, by 34 States. For the corresponding week of 1923 the number was 422 cases. One hundred and one cities reported 133 cases of this disease for the week this year and 108 cases for the week last year. The estimated expectancy was 128 cases.

**Influenza and pneumonia.**—Deaths from influenza and pneumonia (combined) were reported for the week by 101 cities as follows: 1924, 530 deaths; 1923, 401 deaths.

*City reports for week ended June 21, 1924.*

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.
NEW ENGLAND.										
Maine:										
Lewiston.....	1	1	0	0	0	21	0	0	3	6
Portland.....	2	2	7	0	0	3	26	1	1	0
New Hampshire:										
Concord.....	0	0	0	0	0	4	0	0	0	0
Vermont:										
Barre.....	0	0	0	0	0	0	0	1	0	1
Burlington.....	2	1	1	0	0	0	0	0	0	1
Massachusetts:										
Boston.....	21	48	55	0	0	111	13	16	27	55
Fall River.....	1	3	7	0	0	3	0	0	2	2
Springfield.....	3	3	5	0	0	14	15	1	2	8
Worcester.....	2	4	4	0	0	6	2	1	4	5
Rhode Island:										
Pawtucket.....	0	1	2	0	0	0	0	0	0	3
Providence.....	0	8	5	0	0	4	0	4	5	14
Connecticut:										
Bridgeport.....	2	4	7	0	0	1	0	0	3	12
Hartford.....	4	4	5	0	0	8	9	0	4	8
New Haven.....	11	3	0	0	0	14	6	4	1	3
MIDDLE ATLANTIC.										
New York:										
Buffalo.....	0	13	4	0	0	13	0	6	16	11
New York.....	182	259	259	5	4	616	129	133	100	152
Rochester.....	2	7	0	0	0	35	12	5	6	17
Syracuse.....	13	5	8	0	0	38	10	1	5	13
New Jersey:										
Camden.....	9	3	7	0	0	1	6	3	2	9
Newark.....		14	19	3	0	105		7	13	23
Trenton.....	0	4	5	1	0	9	0	2	1	4
Pennsylvania:										
Philadelphia.....	49	50	46	-----	2	181	84	35	29	63
Pittsburgh.....	52	16	17	-----	2	51	77	22	13	38
Reading.....	10	2	3	0	0	2	36	0	2	1

## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.		
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.	
E. NORTH CENTRAL.											
Ohio:											
Cincinnati.....	12	9	3	0	1	18	15	5	5	4	
Cleveland.....	92	19	13	1	1	106	85	12	15	7	
Columbus.....		1							4		
Toledo.....	34	5	0	0	0	0	2	4	11	0	
Indiana:											
Fort Wayne.....		2	4	0	0	29		2	1	4	
Indianapolis.....		5	3	0	0	29		6	7	7	
South Bend.....		1							2		
Terre Haute.....	8	1	0	0	0	1	0	0	1	1	
Illinois:											
Chicago.....	118	103	55	0	0	248	101	54	54	117	
Cicero.....	0	3	0	0	0	1	0	1	0	0	
Peoria.....	5	1	0	0	0	1	1	3	2	0	
Springfield.....		1	1	0	0	1		2	1	0	
Michigan:											
Detroit.....	122	49	30	2	0	92	31	26	39	55	
Flint.....	7	2	2	0	0	4	6	3	3	1	
Grand Rapids.....		2							3		
Saginaw.....	1	1	2	0	0	12	0	1	1	7	
Wisconsin:											
Madison.....	7	0	1	0	0	2	3	1	0	1	
Milwaukee.....	102	12	9	0	0	27	21	8	18	18	
Racine.....	7	1	2	0	0	0	0	0	1	5	
Superior.....	2	1	2	0	0	2	0	1	1	2	
W. NORTH CENTRAL.											
Minnesota:											
Duluth.....	4	1	0	0	0	13	2	1	2	9	
Minneapolis.....	73	11	11	0	1	6	2	4	14	29	
St. Paul.....		10	18	0	0	5		4	9	10	
Iowa:											
Des Moines.....	0	1	3	0		0	0		3	2	
Sioux City.....	0	1	2	0		0	0		2	1	
Waterloo.....	2	1	0	0		2	4		3	0	
Missouri:											
Kansas City.....	7	5	2	0	0	8	12	9	2	4	
St. Joseph.....	0	2	0	0	0	1	1	1	1	0	
St. Louis.....	26	27	27	0	0	36	42		11	69	
North Dakota:											
Fargo.....	0	1	1	0	0	0	0	3	1	1	
Grand Forks.....	0	0	0	0	0	1	0	0	1	0	
South Dakota:											
Aberdeen.....	0		0	0		7	0			1	
Sioux Falls.....	3	0	0	0	0	4	0	1	0	0	
Nebraska:											
Lincoln.....		1	0	0	0	0		0	1	1	
Omaha.....	5	3	3	0	0	6	0	9	5	2	
Kansas:											
Topeka.....	2	2	1	0	0	2	10	1	1	2	
Wichita.....	8	0	0	0	0	3	5	1	1	1	
SOUTH ATLANTIC.											
Delaware:											
Wilmington.....	1	2	2	0	0	2	0	0	2	7	
Maryland:											
Baltimore.....	51	12	17		2	94	15	20	12	30	
Cumberland.....		0	0	0	0	0		0	1	0	
Frederick.....	0	0	0	0	0	2	0	0	0	0	
District of Colum- bia:											
Washington.....	0	7	3	1	1	6		6	7	14	
Virginia:											
Lynchburg.....	2	0	1	0	0	0	9	1	1	0	
Norfolk.....	4	1	0	0	0	4	2	0	1	0	
Richmond.....	5	2	2	1	1	59	2	3	1	0	
Roanoke.....	4	2	1	0	0	10	0	0	0	1	
West Virginia:											
Charleston.....	1	1	0	0	0	27	6	2	1	0	
Huntington.....	1	1	0	0	0	0	0	0	0	0	
Wheeling.....	2	1	3	0	0	8	1	6	1	1	

## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.		
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.	
SOUTH ATLANTIC— continued.											
North Carolina:											
Raleigh.....	2	0	0	0	0	0	0	0	0	0	0
Wilmington.....	0	0	0	0	0	7	0	0	0	0	0
Winston-Salem.....	0	0	0	0	0	0	0	3	1	5	5
South Carolina:											
Charleston.....	0	0	0	0	0	0	1	1	0	0	0
Columbia.....	1	0	0	0	0	1	3	0	0	1	1
Greenville.....	0	0	0	0	0	0	0	0	0	0	0
Georgia:											
Atlanta.....	0	0	2	0	1	0	1	8	2	4	4
Brunswick.....	0	0	0	0	0	0	0	0	0	0	0
Savannah.....	0	1	0	0	0	0	0	0	1	0	0
Florida:											
St. Petersburg.....	0	1	0	0	0	0	0	0	0	0	0
Tampa.....	0	1	0	0	0	0	0	0	0	0	0
E. SOUTH CENTRAL.											
Kentucky:											
Covington.....	1	1	1	0	0	0	0	1	1	0	0
Lexington.....	2	0	0	0	0	4	0	1	0	1	1
Louisville.....	1	4	1	1	0	7	0	2	1	0	0
Tennessee:											
Memphis.....	1	1	1	0	0	3	1	2	1	2	2
Nashville.....	0	1	0	0	2	5	0	2	1	0	0
Alabama:											
Birmingham.....	22	1	1	1	1	7	26	5	2	2	2
Mobile.....	0	1	0	0	0	4	0	0	0	0	0
Montgomery.....	0	1	0	0	0	0	1	0	1	2	2
W. SOUTH CENTRAL.											
Arkansas:											
Fort Smith.....	3	0	0	0	0	0	1	0	1	4	4
Little Rock.....	3	0	0	0	0	1	3	4	0	0	0
Louisiana:											
New Orleans.....	1	4	13	3	0	1	0	5	2	3	3
Shreveport.....	0	0	1	0	0	0	3	1	0	0	0
Oklahoma:											
Oklahoma.....	0	1	0	0	0	1	0	2	1	0	0
Tulsa.....	2	0	0	0	0	3	2	0	0	0	0
Texas:											
Dallas.....	23	2	0	0	2	0	0	6	2	0	0
Galveston.....	1	0	0	0	0	0	0	2	0	0	0
Houston.....	0	1	2	0	0	0	0	2	1	2	2
San Antonio.....	0	2	0	0	1	0	0	4	0	0	0
MOUNTAIN.											
Montana:											
Billings.....	5	0	0	0	0	1	0	0	0	0	0
Great Falls.....	1	0	3	0	0	0	0	1	2	0	0
Helena.....	0	0	1	0	0	0	0	1	0	0	0
Missoula.....	0	0	0	0	0	0	0	0	1	0	0
Idaho:											
Boise.....	1	0	0	0	0	1	0	0	1	0	0
Colorado:											
Denver.....	27	9	13	0	0	16	6	4	7	9	9
Pueblo.....	1	2	5	0	0	3	0	0	1	3	3
New Mexico:											
Albuquerque.....	0	2	0	0	0	2	0	0	1	0	0
Utah:											
Salt Lake City.....	27	2	8	0	0	8	1	2	3	1	1
Nevada:											
Reno.....	0	0	0	0	0	4	0	1	0	0	0



## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, es- timated ex- pectancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, es- timated ex- pectancy.	Cases re- ported.
PACIFIC.										
Washington:										
Seattle.....	36	4	14	0	-----	5	7	-----	7	12
Spokane.....		2							2	-----
Tacoma.....		1							1	-----
Oregon:										
Portland.....	1	4	4	0	0	1	0	3	6	11
California:										
Los Angeles....	33	22	64	2	0	127	10	16	8	30
Sacramento....	0	1	0	0	0	0	0	1	2	0
San Francisco..	30	16	36	0	0	6	16	3	10	17

Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Smallpox.			Tubercu- losis, de- aths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
NEW ENGLAND.										
Maine:										
Lewiston.....	33,790	0	0	0	0	0	0	0	0	14
Portland.....	73,129	0	0	0	0	1	1	0	2	13
New Hampshire:										
Concord.....	22,408	0	0	0	0	0	0	0	0	4
Vermont:										
Barre.....	*10,008	0	0	0	1	0	0	0	1	3
Burlington....	23,613	0	0	0	0	1	0	0	1	5
Massachusetts:										
Boston.....	770,400	0	0	0	20	2	5	1	8	206
Fall River....	120,912	0	0	0	1	2	0	0	1	27
Springfield..	144,227	0	0	0	7	1	0	0	3	39
Worcester....	191,927	0	0	0	1	1	0	0	0	39
Rhode Island:										
Pawtucket....	68,799	0	0	0	1	0	0	0	0	27
Providence....	242,378	0	0	0	9	1	0	0	0	78
Connecticut:										
Bridgeport....	*143,555	0	0	0	4	1	0	0	2	31
Hartford.....	*138,036	0	0	0	2	1	1	0	0	29
New Haven....	172,967	0	0	0	2	1	1	0	3	33
MIDDLE ATLANTIC.										
New York:										
Buffalo.....	536,718	0	1	0	12	1	0	0	17	123
New York.....	5,927,625	1	0	0	103	14	55	3	220	1,279
Rochester....	317,867	0	0	0	3	0	0	0	1	73
Syracuse.....	184,511	0	3	0	0	0	0	0	2	38
New Jersey:										
Camden.....	124,157	0	1	0	1	1	0	1	4	34
Newark.....	438,699	0	0	0	14	1	1	0	-----	91
Trenton.....	127,390	0	5	0	5	1	0	0	5	36
Pennsylvania:										
Philadelphia..	1,922,788	0	0	0	44	8	2	0	71	460
Pittsburgh....	613,442	0	0	1	11	2	0	0	34	164
Reading.....	110,917	0	0	0	3	1	0	0	6	26
EAST NORTH CENTRAL.										
Ohio:										
Cincinnati....	406,312	1	18	0	12	2	2	0	2	113
Cleveland....	888,519	3	17	1	20	3	2	0	77	172
Columbus.....	261,082	1	-----	-----	-----	1	-----	-----	-----	-----
Toledo.....	268,338	2	12	0	10	2	0	0	17	70

\* Population Jan. 1, 1920.

## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Smallpox.			Tubercu- losis, deaths reported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
EAST NORTH CENTRAL—CON.										
Indiana:										
Fort Wayne.....	93,573	1	1	0	0	0	0	0	-----	29
Indianapolis.....	342,718	6	33	0	1	1	0	1	-----	80
South Bend.....	76,709	0	-----	-----	-----	0	-----	-----	-----	-----
Terre Haute.....	68,939	0	3	0	1	0	0	0	2	15
Illinois:										
Chicago.....	2,886,121	1	4	0	56	4	6	0	53	617
Cicero.....	55,968	0	0	0	0	0	0	0	2	5
Peoria.....	79,675	0	0	0	0	0	0	0	1	26
Springfield.....	61,833	2	0	0	2	0	0	0	-----	19
Michigan:										
Detroit.....	995,668	10	29	7	21	4	1	0	37	217
Flint.....	117,968	0	8	0	1	0	0	0	0	21
Grand Rapids.....	145,947	0	-----	-----	-----	0	-----	-----	-----	-----
Saginaw.....	69,754	0	0	0	0	0	2	0	3	15
Wisconsin:										
Madison.....	42,519	0	0	0	1	0	0	0	11	7
Milwaukee.....	484,595	5	0	0	3	2	0	0	8	96
Racine.....	64,393	0	2	0	0	0	0	0	-----	5
Superior.....	*39,671	2	3	0	0	0	0	0	-----	8
WEST NORTH CENTRAL.										
Minnesota:										
Duluth.....	106,289	2	2	0	0	0	0	0	6	22
Minneapolis.....	409,125	16	4	0	4	1	1	0	6	54
St. Paul.....	241,891	4	12	0	6	1	1	0	-----	58
Iowa:										
Des Moines.....	140,923	4	7	-----	-----	0	0	-----	0	-----
Sioux City.....	79,662	2	0	-----	-----	0	0	-----	0	-----
Waterloo.....	39,667	0	1	-----	-----	0	0	-----	1	-----
Missouri:										
Kansas City.....	351,819	5	0	0	11	1	0	0	18	77
St. Joseph.....	78,232	2	0	0	0	0	0	0	0	21
St. Louis.....	803,853	3	1	0	10	3	1	0	20	189
North Dakota:										
Fargo.....	24,841	0	2	0	1	0	0	0	0	10
Grand Forks.....	14,547	0	0	0	0	0	0	0	0	-----
South Dakota:										
Aberdeen.....	15,829	-----	0	-----	-----	-----	0	-----	0	-----
Sioux Falls.....	29,206	1	0	0	0	0	0	0	0	8
Nebraska:										
Lincoln.....	58,761	2	0	0	0	0	0	0	0	7
Omaha.....	204,382	2	7	0	0	0	0	0	0	51
Kansas:										
Topeka.....	52,555	2	0	0	1	1	0	0	3	9
Wichita.....	79,261	5	5	0	0	0	1	0	5	22
SOUTH ATLANTIC										
Delaware:										
Wilmington.....	117,728	0	0	0	0	1	0	0	3	30
Maryland:										
Baltimore.....	773,580	0	2	0	10	5	2	0	30	187
Cumberland.....	32,361	0	0	0	0	0	0	0	-----	7
Frederick.....	11,391	0	0	0	0	0	0	0	0	4
District of Columbia:										
Washington.....	*437,571	0	2	0	15	3	1	0	4	112
Virginia:										
Lynchburg.....	30,277	1	0	0	1	0	1	0	5	8
Norfolk.....	159,089	0	0	0	6	1	1	0	1	-----
Richmond.....	181,044	0	1	0	3	1	0	0	4	69
Roanoke.....	55,502	1	0	0	1	0	0	0	15	16
West Virginia:										
Charleston.....	45,597	1	0	0	1	2	1	0	0	18
Huntington.....	57,918	0	0	0	3	1	0	0	0	16
Wheeling.....	*56,208	0	0	0	0	2	0	0	0	26
North Carolina:										
Raleigh.....	29,171	0	2	0	0	1	0	0	9	11
Wilmington.....	35,719	0	0	0	0	0	0	0	0	18
Winston-Salem.....	56,230	1	3	0	3	1	1	1	-----	31

\* Population Jan. 1, 1920.

\* Pulmonary only.

## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Smallpox.			Tuberculosis, deaths reported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
SOUTH ATLANTIC—continued.										
South Carolina:										
Charleston.....	71,245	1	1	0	5	3	1	2	0	34
Columbia.....	39,688	0	1	0	0	1	3	1	1	20
Greenville.....	25,789	1	1	0	0	1	1	0	1	4
Georgia:										
Atlanta.....	222,963	5	22	0	9	2	0	1	0	89
Brunswick.....	15,937	0	0	0	1	1	2	0	0	2
Savannah.....	89,448	0	0	0	0	2	0	0	0	24
Florida:										
St. Petersburg.....	24,403									
Tampa.....	56,050	0	0	0	1	1	2	0	0	24
EAST SOUTH CENTRAL.										
Kentucky:										
Covington.....	57,877	0	0	0	1	0	0	0	0	17
Lexington.....	43,673	1	0	0	2	0	0	0	0	14
Louisville.....	257,671	0	1	0	6	2	2	0	1	63
Tennessee:										
Memphis.....	170,067	1	1	0	4	1	3	1	5	63
Nashville.....	121,128	1	3	0	3	4	1	0		40
Alabama:										
Birmingham.....	195,901	1	58	0	7	5	4	0	18	72
Mobile.....	63,858	0	0	0	1	2	2	0		25
Montgomery.....	45,383	0	2	0	1	1	1	0	0	13
WEST SOUTH CENTRAL.										
Arkansas:										
Fort Smith.....	30,635	0	0			0	0		0	
Little Rock.....	70,916	0	0	0	2	2	3	0	0	
Louisiana:										
New Orleans.....	404,575	2	0	0	14	4	3	1	1	139
Shreveport.....	54,590		2	0	0		0	0	0	18
Oklahoma:										
Oklahoma.....	101,150	5	0	0	0	1	0	0	0	23
Tulsa.....	102,018	1	4			2	1		2	
Texas:										
Dallas.....	177,274	1	4	0	0	3	0	0	5	49
Galveston.....	40,877	0	0	0	0	1	0	0	0	15
Houston.....	154,970	3	2	0	5	2	0	0	0	47
San Antonio.....	184,727	1	0	0	10	1	2	1	0	63
MOUNTAIN.										
Montana:										
Billings.....	16,927	0	1	0	0	1	0	0	0	4
Great Falls.....	27,787	2	1	0	0	1	0	0	1	5
Helena.....	*12,037		0	0	0		0	0	0	5
Missoula.....	*12,668	1	8	0	0	0	0	0	0	4
Idaho:										
Boise.....	22,806	1	0	0	0	0	0	0	0	5
Colorado:										
Denver.....	272,031	10	0	0	5	0	3	0	30	57
Pueblo.....	43,519	0	0	0	0	0	0	0	0	14
New Mexico:										
Albuquerque.....	16,648	0	0	0	4	0	0	0	0	9
Utah:										
Salt Lake City.....	126,241	4	0	0	1	1	1	0	1	31
Nevada:										
Reno.....	12,429	0	0	0	0	0	0	0	0	2
PACIFIC.										
Washington:										
Seattle.....	*315,685	4	5			0	2		3	
Spokane.....	104,573	4				0				
Tacoma.....	101,731	2				0				
Oregon:										
Portland.....	273,621	7	2	0	1	0	0	0	0	
California:										
Los Angeles.....	666,853	1	42	0	28	4	6	0	16	262
Sacramento.....	69,950	0	0	0	1	1	0	0	0	28
San Francisco.....	539,038	1	5	0	13	2	0	0	2	121

\*Population Jan. 1, 1920.

## City reports for week ended June 21, 1924—Continued.

Division, State, and city.	Cerebrospinal meningitis.		Lethargic encephalitis.		Pellagra.		Poliomyelitis (infantile paralysis).		
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, est. expectancy.	Cases.	Deaths.
NEW ENGLAND.									
Massachusetts:									
Boston.....	2	2	1	0	0	0	0	1	0
Fall River.....	0	1	0	0	0	0	0	0	0
Rhode Island:									
Providence.....	1	1	0	0	0	0	0	0	0
MIDDLE ATLANTIC.									
New York:									
New York.....	3	3	3	4	0	0	2	2	2
Syracuse.....	0	0	0	0	0	0	0	4	0
New Jersey:									
Newark.....	1	0	0	0	0	0	0	0	0
Pennsylvania:									
Philadelphia.....	0	0	2	0	0	0	0	0	0
EAST NORTH CENTRAL.									
Ohio:									
Cleveland.....	1	0	0	0	0	0	0	0	0
Illinois:									
Chicago.....	0	0	1	0	0	0	1	0	0
Peoria.....	0	1	0	0	0	0	0	0	0
Michigan:									
Detroit.....	1	0	1	0	0	0	0	0	0
Flint.....	0	0	1	1	0	0	0	0	0
WEST NORTH CENTRAL.									
Nebraska:									
Lincoln.....	1	1	0	0	0	0	0	0	0
Omaha.....	0	0	1	1	0	0	0	0	0
SOUTH ATLANTIC.									
Delaware:									
Wilmington.....	0	0	0	0	0	0	0	1	0
Maryland:									
Baltimore.....	0	0	0	1	0	0	0	0	0
North Carolina:									
Winston-Salem.....	0	0	0	0	2	1	0	0	0
South Carolina:									
Charleston.....	0	0	0	0	0	1	0	0	0
Columbia.....	0	0	0	0	0	3	0	1	0
Georgia:									
Atlanta.....	0	0	0	0	0	1	0	0	0
Savannah.....	0	0	0	0	1	1	0	0	0
EAST SOUTH CENTRAL.									
Alabama:									
Birmingham.....	0	0	0	0	2	1	0	0	0
WEST SOUTH CENTRAL.									
Arkansas:									
Little Rock.....	0	0	0	0	2	1	0	0	0
Louisiana:									
Shreveport.....	0	0	0	0	0	1	0	0	0
Texas:									
Dallas.....	0	0	0	0	0	1	0	0	0
PACIFIC.									
California:									
San Francisco.....	0	0	1	0	0	0	0	0	0

The following table gives a summary of the reports from 105 cities for the ten-week period ended June 21, 1924. The cities included in this table are those whose reports have been published

for all ten weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923, which is the latest date for which estimates are available. The cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

*Summary of weekly reports from cities, April 13 to June 21, 1924.*

DIPHTHERIA CASES.

	1924, week ended—									
	Apr. 19.	Apr. 26.	May 3.	May 10.	May 17.	May 24.	May 31.	June 7.	June 14.	June 21.
Total.....	1,009	988	910	892	930	927	869	919	909	871
New England.....	99	111	97	83	78	94	85	90	73	97
Middle Atlantic.....	374	400	344	395	357	340	371	387	405	361
East North Central.....	211	156	173	157	168	175	130	150	155	131
West North Central.....	60	71	68	64	110	106	80	76	55	65
South Atlantic.....	52	50	38	31	42	32	43	41	35	29
East South Central.....	14	13	6	8	3	8	4	8	6	4
West South Central.....	31	33	18	26	16	18	18	18	17	15
Mountain.....	52	31	35	29	18	30	14	37	15	30
Pacific.....	116	123	131	99	138	124	134	112	148	139

MEASLES CASES.

Total.....	5,147	5,203	4,730	4,422	4,019	3,716	2,943	3,240	2,846	2,309
New England.....	353	354	379	339	271	310	227	247	175	168
Middle Atlantic.....	2,347	2,184	2,310	1,889	1,868	1,571	1,231	1,483	1,287	1,050
East North Central.....	675	829	703	862	781	873	733	747	755	578
West North Central.....	359	350	257	274	197	128	124	130	97	87
South Atlantic.....	487	518	485	457	465	468	344	317	317	218
East South Central.....	159	173	98	73	56	56	47	36	32	26
West South Central.....	188	127	104	71	51	33	28	19	11	2
Mountain.....	179	193	113	97	100	79	70	50	20	33
Pacific.....	400	475	281	360	230	198	139	211	152	147

SCARLET FEVER CASES.

Total.....	1,658	1,532	1,605	1,549	1,503	1,311	1,213	1,244	1,065	969
New England.....	253	271	242	210	213	165	168	181	143	111
Middle Atlantic.....	474	467	473	470	452	406	380	401	335	322
East North Central.....	334	284	325	318	336	279	259	243	249	250
West North Central.....	222	195	197	219	223	182	167	182	160	128
South Atlantic.....	189	168	171	159	118	134	112	121	92	56
East South Central.....	16	12	16	19	9	9	8	11	6	6
West South Central.....	27	18	23	15	14	14	11	11	12	9
Mountain.....	19	23	27	37	25	30	17	17	3	13
Pacific.....	124	94	131	102	113	92	91	77	65	74

SMALLPOX CASES.

Total.....	467	568	543	460	529	408	331	472	335	345
New England.....	1	0	0	0	0	0	0	0	0	0
Middle Atlantic.....	0	0	0	0	5	1	1	8	7	9
East North Central.....	164	193	186	165	213	181	149	174	158	121
West North Central.....	41	62	53	33	39	26	19	40	33	34
South Atlantic.....	93	98	70	95	51	54	29	39	44	35
East South Central.....	26	55	49	20	54	33	36	107	22	65
West South Central.....	5	2	4	1	7	6	7	5	7	8
Mountain.....	10	6	5	6	6	3	7	2	6	10
Pacific.....	127	152	176	140	154	104	83	97	58	63

<sup>1</sup> Figures for Columbus, Ohio, estimated. Report not received at time of going to press.

<sup>2</sup> Figures for Flint, Mich., estimated.

<sup>3</sup> Figures for Columbus, Ohio, Grand Rapids, Mich., and South Bend, Ind., estimated.

<sup>4</sup> Figures for St. Petersburg, Fla., estimated.

<sup>5</sup> Figures for Spokane and Tacoma, Wash., estimated.

## Summary of weekly reports from cities, April 13 to June 21, 1924—Continued.

## TYPHOID FEVER CASES.

	1924, week ended—									
	Apr. 19.	Apr. 26.	May 3.	May 10.	May 17.	May 24.	May 31.	June 7.	June 14.	June 21.
Total.....	55	58	49	68	73	78	78	92	107	133
New England.....	4	7	4	9	2	6	9	3	7	8
Middle Atlantic.....	17	11	10	25	32	24	18	30	46	58
East North Central.....	7	10	11	9	12	7	<sup>1</sup> 16	11	<sup>1</sup> 9	<sup>3</sup> 12
West North Central.....	6	1	3	2	3	8	5	8	5	4
South Atlantic.....	4	8	11	11	8	18	<sup>4</sup> 13	<sup>4</sup> 12	10	16
East South Central.....	4	8	3	3	7	6	11	7	8	13
West South Central.....	4	6	3	3	3	5	10	13	13	8
Mountain.....	4	0	1	3	0	2	1	0	0	4
Pacific.....	5	7	3	3	6	2	5	8	9	<sup>5</sup> 10

## INFLUENZA DEATHS.

Total.....	80	72	51	60	49	40	30	21	15	22
New England.....	3	3	2	2	1	2	1	1	1	0
Middle Atlantic.....	31	30	21	32	25	10	10	5	6	8
East North Central.....	14	12	7	10	5	11	<sup>1</sup> 10	3	<sup>2</sup> 2	<sup>2</sup> 4
West North Central.....	4	4	3	3	4	3	1	2	2	1
South Atlantic.....	6	10	5	7	5	6	<sup>4</sup> 5	<sup>4</sup> 3	1	5
East South Central.....	11	8	3	4	4	3	1	2	3	3
West South Central.....	4	3	4	0	3	1	1	2	0	3
Mountain.....	4	2	0	1	1	1	0	0	0	0
Pacific.....	3	0	6	1	1	3	1	3	0	0

## PNEUMONIA DEATHS.

Total.....	1,101	959	935	782	743	644	630	590	575	508
New England.....	61	63	69	55	52	36	34	37	46	28
Middle Atlantic.....	474	430	392	332	343	285	267	276	250	208
East North Central.....	232	170	199	150	139	136	<sup>1</sup> 131	118	<sup>2</sup> 109	<sup>3</sup> 124
West North Central.....	64	49	53	42	41	38	40	22	40	34
South Atlantic.....	118	114	97	93	86	64	<sup>4</sup> 60	<sup>4</sup> 66	52	50
East South Central.....	57	42	44	29	22	32	40	18	20	12
West South Central.....	43	35	24	25	27	27	14	18	27	23
Mountain.....	25	26	27	24	13	11	18	14	15	9
Pacific.....	27	30	30	32	20	15	26	21	16	20

<sup>1</sup> Figures for Columbus, Ohio, estimated. Report not received at time of going to press.<sup>2</sup> Figures for Flint, Mich., estimated.<sup>3</sup> Figures for Columbus, Ohio, Grand Rapids, Mich., and South Bend, Ind., estimated.<sup>4</sup> Figures for St. Petersburg, Fla., estimated.<sup>5</sup> Figures for Spokane and Tacoma, Wash., estimated.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923.

Group of cities.	Number of cities reporting cases.	Number of cities reporting deaths.	Aggregate population of cities reporting cases.	Aggregate population of cities reporting deaths.
Total.....	105	97	28,898,350	28,140,934
New England.....	12	12	2,098,746	2,098,746
Middle Atlantic.....	10	10	10,304,114	10,304,114
East North Central.....	17	17	7,032,535	7,032,535
West North Central.....	14	11	2,515,330	2,381,454
South Atlantic.....	22	22	2,566,901	2,566,901
East South Central.....	7	7	911,885	911,885
West South Central.....	8	6	1,124,564	1,023,013
Mountain.....	9	9	546,445	546,445
Pacific.....	6	3	1,797,830	1,275,841



## FOREIGN AND INSULAR.

### BOLIVIA.

#### Communicable Diseases—La Paz—May, 1924.

During the month of May, 1924, communicable diseases were reported at La Paz, Bolivia, as follows:

Disease.	Cases.	Deaths.	Disease.	Cases.	Deaths.
Cerebrospinal meningitis.....	1	1	Scarlet fever.....	7	9
Diphtheria.....	2	5	Smallpox.....	2	4
Influenza.....	5	3	Tuberculosis.....	16	11
Measles.....			Typhoid fever.....		1

#### Dysentery—Smallpox in Surrounding Country.

During the period under report, three cases of dysentery with four deaths were reported at La Paz. Smallpox was stated to be present in the surrounding country.

### CHILE.

#### Plague—Smallpox—Antofagasta.

During the week ended June 7, 1924, one case of plague was reported at Antofagasta, Chile. Under date of June 11, 1924, six cases of plague and two cases of smallpox were reported under treatment at the lazaretto.

### CUBA.

#### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	June 11-20, 1924.		Remain- ing under treatment June 20, 1924.
	New cases.	Deaths.	
Diphtheria.....	4		4
Leprosy.....			15
Malaria <sup>a</sup> .....	20	4	132
Measles.....	4		5
Paratyphoid fever.....	2		2
Scarlet fever.....	2		2
Typhoid fever.....	20	4	241

<sup>a</sup> One fatal case reported as typhoid malaria.

<sup>1</sup> From the interior, 12.

<sup>2</sup> From the interior, 17.

**Malaria—Typhoid Fever—Santiago.**

During the week ended June 14, 1924, malaria and typhoid fever were reported present at Santiago de Cuba.

**ECUADOR.****Quito—Correction.**

Reports of plague and typhus fever in Quito, Ecuador, published in the Public Health Reports dated February 8, 1924, on page 274 and in that issue and subsequent issues in the table of foreign reports of plague, smallpox, and typhus fever, were erroneous. No reports of plague or typhus fever have ever been received from Quito, nor was smallpox reported during November.

**ESTHONIA.****Communicable Diseases—April, 1924.**

During the month of April, 1924, communicable diseases were reported in the Republic of Esthonia, as follows:

Disease.	Cases.	Disease.	Cases.
Diphtheria .....	39	Scarlet fever .....	57
Leprosy .....	3	Tuberculosis .....	226
Measles .....	20	Typhoid fever .....	56
Paratyphus fever .....	7	Typhus fever .....	23

Population, census of 1922—1,107,059.

**GREECE.****Plague—Patras.**

Under date of July 4, 1924, 16 cases of plague with one death were reported at Patras, Greece.

**JAMAICA.****Smallpox (Reported as Alastrim.)**

During the week ended June 14, 1924, 33 new cases of smallpox (reported as alastrim) were notified in the Island of Jamaica. Of these, one case was reported for Kingston.

**JAPAN.****Plague—Higashi.**

Plague was reported present in the village of Higashi, Hamamura, Shizuoka prefecture, Japan, under date of June 24, 1924.

## POLAND.

## Communicable Diseases—March 30–April 12, 1924.

Communicable diseases were notified in Poland, during the period March 30 to April 12, 1924, as follows:

*Mar. 30–Apr. 5, 1924.*

Disease.	Cases.	Deaths.	District showing greatest number of deaths.
Cerebrospinal meningitis.....	8	3	Former Russian Poland.
Diphtheria.....	80	12	Lodz.
Measles.....	134	5	Lwow.
Scarlet fever.....	232	23	Warsaw and Polesia.
Smallpox.....	47	1	Kielce.
Trachoma.....	158	-----	-----
Typhoid fever.....	127	10	Former German Poland.
Typhus fever.....	350	37	Warsaw.
Typhus fever, recurrent.....	3	1	Volhynia.
Whooping cough.....	41	11	Former Austrian Poland.

*Apr. 6–12, 1924.*

Cerebrospinal meningitis.....	2	15	Silesia.
Diphtheria.....	70	2	Volhynia and Lwow.
Measles.....	111	2	Lwow.
Scarlet fever.....	201	9	Tarnopol.
Smallpox.....	43	5	Krakow.
Typhoid fever.....	186	24	Krakow and Kielce.
Typhus fever.....	324	40	Kielce.
Whooping cough.....	37	3	Lublin.

Population, census of September, 1921, 27, 160, 163.

## Dysentery—Rabies.

During the two weeks period ended April 12, 1924, 52 cases of dysentery with 6 deaths were reported in Poland. During the week ended April 12, 1924, one death from rabies was reported, the occurrence being in Lwow district.

CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER.<sup>1</sup>Reports Received During Week Ended July 11, 1924.<sup>2</sup>

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	May 18-24.....	22	22	
Rangoon.....	do.....	17	12	
Siam:				
Bangkok.....	May 11-17.....	2	1	

<sup>1</sup> Reports of plague, smallpox, and typhus fever at Quito, Ecuador, appearing in the Public Health Reports, Feb. 8, 1924, pp. 276 and 277, and in subsequent issues, were erroneous. No reports of these diseases at Quito have been received.

<sup>2</sup> From medical officers of the Public Health Service, American consuls, and other sources.

**CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued.****Reports Received During Week Ended July 11, 1924—Continued.****PLAGUE.**

Place.	Date.	Cases.	Deaths.	Remarks.
Chile:				
Antofagasta.....	June 1-7.....	1		
China:				
Foochow.....	May 4-10.....		5	
Greece:				
Patras.....	July 4.....	16	1	
India:				
Calcutta.....	May 18-24.....	2	2	
Karachi.....	May 25-31.....	3	2	
Madras Presidency.....	do.....		1	
Rangoon.....	May 18-24.....	8	9	
Japan:				
Shizuoka Prefecture— Higashi.....	June 24.....			Present.

**SMALLPOX.**

Bolivia:				
La Paz.....	May 1-31.....	2	4	Smallpox insurrounding country.
Brazil:				
Porto Alegre.....	May 18-24.....		1	
Rio de Janeiro.....	do.....	2		
British South Africa:				
Northern Rhodesia.....	May 6-12.....	13	1	Native.
Chile:				
Antofagasta.....	June 11.....	2		Under treatment at lazaretta
France:				
Paris.....	May 21-31.....	2		
Great Britain:				
England and Wales.....	June 1-14.....	144		
County—				
Derby.....	do.....	67		
Northumberland.....	do.....	28		
Nottingham.....	do.....	14		
Yorks (North Riding). do.....	do.....	20		
India:				
Calcutta.....	May 18-24.....		1	
Karachi.....	May 25-31.....	14	8	
Madras.....	do.....	2		
Rangoon.....	May 18-24.....	6	4	
Jamaica:				
Kingston.....	June 8-14.....	1		June 8-14, 1924: Cases, 33. (Reported as alastrim.)
Japan:				
Kobe.....	June 2-8.....	1		
Java:				
East Java—				
Soerabaya.....	Apr. 20-26.....	17	9	
Mexico:				
Mexico City.....	May 18-31.....	32		
Salina Cruz.....	May 25-31.....	1	1	
Tampico.....	June 14-20.....	2		
Poland:				
Lisbon.....	June 1-7.....	1		
Oporto.....	May 11-17.....	4	3	
Do.....	June 1-7.....	5	2	
Siam:				
Bangkok.....	May 11-17.....		1	
Spain:				
Valencia.....	June 8-14.....	1		
Switzerland:				
Berne.....	May 25-31.....	7		
Tunis:				
Tunis.....	June 3-9.....	4		

Mar. 30-Apr. 12, 1924: Cases, 90; deaths, 6.

**CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER—Continued.****Reports Received During Week Ended July 11, 1924—Continued.****TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Chile:				
Concepcion.....	May 20-26.....		3	
Talcahuano.....	May 25-31.....	2		
Valparaiso.....	do.....		6	
Mexico:				
Mexico City.....	May 18-31.....	21		
Poland.....				Mar. 30-Apr. 12, 1924: Cases, 674; deaths, 77. Recurrent typhus: Cases, 3; deaths, 1.
Tunis:				
Tunis.....	June 2-9.....	1		
Turkey:				
Constantinople.....	May 18-31.....	5	1	

**Reports Received from June 28 to July 4, 1924.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	May 4-10.....	1		Apr. 20-May 3, 1924: Cases, 21,517; deaths, 16,219.
Calcutta.....	May 11-17.....	49	38	
Rangoon.....	do.....	7	5	
Indo-China:				
Saigon.....	Apr. 27-May 3.....	1	1	
Siam:				
Bangkok.....	May 4-10.....	2	2	

**PLAGUE.**

Argentina:				
Chaco Territory.....				April, 1924: Cases reported.
Ceylon:				
Colombo.....	May 11-17.....	3	1	Plague rats, 2.
China:				
Foochow.....	do.....		6	
Egypt:				Jan. 1-May 29, 1924: Cases, 252; deaths, 125.
City—				
Alexandria.....	Apr. 2.....	1	1	
Port Said.....	Apr. 24-May 3.....	1		
Suez.....	May 14-20.....	1		
Province—				
Assiout.....	Apr. 1-May 25.....	37	28	
Charkieh.....	Jan. 31.....	1	1	
Fayoum.....	Feb. 18-May 29.....	76	21	
Gharbieh.....	Apr. 21.....	1	1	
Girgeh.....	Jan. 17-May 13.....	10	3	
Kalioubieh.....	Jan. 6-May 22.....	10	1	
Kena.....	Apr. 9-May 17.....	44	26	
Menoufieh.....	Jan. 2-May 16.....	43	28	
Minia.....	Feb. 5-May 27.....	18	11	
India:				Apr. 20-May 3, 1924: Cases, 34,494; deaths, 28,648.
Bombay.....	May 4-17.....	27	24	
Calcutta.....	May 11-17.....	4	4	
Karachi.....	May 18-24.....	8	5	
Madras Presidency.....	do.....	7	1	
Rangoon.....	May 11-17.....	12	13	
Iraq:				
Bagdad.....	Apr. 20-May 10.....	51	35	
Madagascar:				
Tananarive Province.....				Apr. 1-15, 1924: Cases, 54; deaths, 50.
Tananarive Town.....	Apr. 1-15.....	8	8	
Other localities.....	do.....	46	42	
Persia:				
Bushire.....	Apr. 1-30.....	1	1	In quarantine from vessel.
Siam:				
Bangkok.....	May 4-10.....	2	2	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources. For reports received from Dec. 29, 1923, to June 27, 1924, see Public Health Reports for June 27, 1924. The tables of epidemic diseases are terminated semiannually and new tables begun.

**CHOLERA, PLAGUE, SMALLPOX AND TYPHUS FEVER—Continued.****Reports Received from June 28 to July 4, 1924—Continued.****PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa				Apr 27-May 10, 1924: Cases, 10; deaths, 8. Total, Dec. 16, 1923-May 10, 1924: Cases, 330; deaths, 201. (White, 48 cases; 22 deaths; native cases, 282; deaths, 179.)

**SMALLPOX.**

Canada:				
Quebec—				
Montreal	June 8-14	1		
China:				
Amoy	May 11-17			Present.
Chungking	do			Wide spread.
Manchuria—				
Dairen	May 12-18	6	2	
Harbin	May 13-19	1		
Tientsin	May 4-17	5		
Egypt:				
Cairo	Feb. 19-Mar. 11	9		
Great Britain:				
England and Wales				May 25-31, 1924: Cases 75.
County—				
Derby	May 25-31	40		
Northumberland	do	15		
Nottingham	do	7		
Yorks (North Riding)	do	5		
India:				
Bombay	May 4-17	172	90	Apr. 20-May 3, 1924: Cases, 7,121; deaths, 1,536.
Calcutta	May 11-17	3	2	
Karachi	May 18-24	13	3	
Madras	do	4	1	
Rangoon	May 11-17	10	4	
Indo-China:				
Saigon	Apr. 27-May 3	40	23	Including 100 square kilometers of surrounding territory.
Iraq:				
Bagdad	Apr. 20-May 10	6	1	
Italy:				
Messina	May 26-June 1	1		
Jamaica:				
Kingston	June 1-7	2		June 1-7, 1924: Cases, 42 (reported as alastrim).
Japan:				
Kobe	May 16-June 1	1		
Java:				
East Java—				
Soerabaya	Apr 13-19	25	9	Apr. 1-30 1924: One case.
Latvia:				
Mexico:				
Guadalajara	May 1-31	5	1	
Mexico City	May 4-17	29		Including municipalities in Federal District.
Palestine:				
Samak	May 27-June 2	1		
Portugal:				
Lisbon	May 25-31	3		
Oporto	do	5	3	
Siam:				
Bangkok	Apr. 27-May 10	3	3	
Spain:				
Barcelona				Year 1923: Cases, 160.
Sumatra:				
Medan	Jan. 1-31	5		
Tunis:				
Tunis	May 27-June 2	3		
Union of South Africa:				
Cape Province	May 4-10			Mar. 1-31, 1924: Cases, 55 (white, 4 cases; native, 52).
Orange Free State	do			Outbreaks.
Transvaal	do			Do.
On vessel:				
S. S. Karoa	May 7	1		At Durban, South Africa, from Bombay, India; vessel left Bombay Apr. 16, 1924. Patient, European.



**CHOLERA, PLAGUE, SMALLPOX AND TYPHUS FEVER—Continued.****Reports Received from June 28 to July 4, 1924—Continued.****TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	May 1-31.....	19	8	
China:				
Chungking.....	May 11-17.....			Widespread.
Egypt:				
Cairo.....	Feb. 19-Mar. 11....	5	2	
Germany:				
Hamburg.....	May 25-31.....	3		
Iraq:				
Bagdad.....	Apr. 27-May 10....	2		
Latvia.....				Apr. 1-30, 1924: Cases, 39. Paratyphus, 1 case: paratyphus B., 1 case.
Mexico:				
Guadalajara.....	May 1-31.....		1	
Mexico City.....	May 4-17.....	17		Including municipalities in Federal District.
Tunis:				
Tunis.....	May 27-June 2....	3		
Union of South Africa.....				Mar. 1-31, 1924: Cases, 121; deaths, 13. (White—cases, 15; deaths, 1. Native—cases, 106; deaths, 12.)
Cape Province.....				Mar. 1-31, 1924: Cases, 60; deaths, 5.
Do.....	May 4-10.....			Outbreaks.
Natal.....				Mar. 1-31, 1924: Cases, 2.
Durban.....	Apr. 20-26.....	1		
Orange Free State.....				Mar. 1-31, 1924: Cases, 19; deaths, 3.
Transvaal.....				Mar. 1-31, 1924: Cases, 25; deaths, 4.
Johannesburg.....	May 11-17.....	1		